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The military in general and the entire health care system in specific is in a period of change, right sizing, and cost containment. Many changes are in the near future for Naval Hospital, Charleston including building a Preferred Provider Organization (PPO), downsizing inpatient bed capability, developing business plans, redefining its mission, and re-engineering the way health care is delivered. The hospital has become increasingly dependent on the TPC programs to provide operational funding. This facility has developed a very successful TPC program for inpatient, outpatient The hospital is seeking to expand the TPC program to include radiology services. Under the current regulatons the TPC program for radiology may not produce sufficient reimbursement to implement the program. It also may present many unique problems in terms of staffing, equipment usage, funding, and legal liability.

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A Cost Benefit Analysis of Implementing a Third Party Collections Program for Radiology at the Naval Hospital Charleston

A Graduate Management Project
Submitted to the Faculty of
Baylor University
In Partial Fulfillment of the
Requirements for the Degree
Master of Health Administration

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by

Lieutenant Leo P. Kupper, MSC, USNR

May 1994

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I wish to extend a heart felt thanks to my wife and family for their support during this entire two year academic period.

#### ABSTRACT

The military in general and the entire health care system in specific is in a period of change, right sizing, and cost containment. Many changes are in the near future for Naval Hospital, Charleston including building a Preferred Provider Organization (PPO), downsizing inpatient bed capability, developing business plans, redefining its mission, and re-engineering the way health care is delivered. The hospital has become increasingly dependent on the TPC programs to provide operational funding. This facility has developed very successful TPC program for inpatient, outpatient and pharmacy. The hospital is seeking to expand the TPC program to include radiology services.

Under the current regulations the TPC program for radiology may not produce sufficient reimbursement to implement the program. It also may present many unique problems in terms of staffing, equipment usage, funding, and legal liability. The advantages of implementing the TPC program for radiology include maintaining workload as the active duty navy population decreases, providing an alternate source of funding for a decreasing budget, justifying current staffing, maintaining offered and seeking alternate use of CHAMPUS funds from the Lead Agent. The problems with implementing this program include finding and using an accurate staffing model, inaccurate data recording systems, limited equipment and resources, logistical

problems in returning external provider requests, employee morale issues, and possible public relation issues.

It is recommended the Naval Hospital, Charleston implement the TPC program for Radiology using a pilot study on Computerized Axial Tomography (CAT) scans to determine resource consumption, patient demand, program cost, and expected reimbursement. It is vital that a multidisciplinary team using Total Quality Leadership (TQL) methods research the issues surrounding the program and determine the best alternatives. Under current regulations a fully implemented TPC program for radiology may be able to generate up to \$30,000 a year in operational revenue for this facility.

DoD may wish to revise the TPC program for Radiology to include all radiological examinations on the premise that volume will increase the reimbursement rate.

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#### CHAPTER I

#### INTRODUCTION

## Background

Naval Hospital, Charleston is a 90 bed primary care hospital. The United States Congress has authorized the Department of Defense (DoD) to

"collect from third party payers to the fullest extent allowed by law. A third party payer has an obligation to pay the United States the reasonable cost of health care services provided in any facility of the Uniformed Services to a Uniformed Services beneficiary who is also a beneficiary under the third party payer's plan. The obligation is to the extent that the beneficiary would be eligible to receive reimbursement or indemnification from the third party payer if the beneficiary were to incur the costs on the beneficiary's own behalf. Authority to collect ... has been expanded to include outpatient services, automobile liability and nofault insurance and Medicare supplemental insurance carriers." (DOD, 1993).

Naval Hospital (NH) Charleston has a strong Third Party Collections (TPC) program. This program enables our facility to supplement its operational budget to purchase minor equipment and support its organizational requirements.

NH Charleston collected approximately 1.9 million dollars

for inpatient TPC and 0.7 million dollars for outpatient TPC. (Childers, 1994). In Fiscal Year 1993
(FY-93), DoD was authorized by Congress to bill third party payers (TPP) for the ancillary services of Pharmacy and Radiology. In FY-93, NH Charleston instituted the TPC program for Pharmacy prescriptions.

## Problem Statement

The Comptroller for NH Charleston is seeking to implement the TPC program for Radiology services. This study will examine if Naval Hospital, Charleston can implement a TPC for Radiology services in a cost effective manner with minimal negative impact on patients and staff.

## Review of the Literature

The TPC program is guided by Public Law, Title 10 and Title 42 United States Code, Title 32 Code of Federal Regulations, DoD, the Judge Advocate General (JAG), and Bureau of Medicine and Surgery (BUMED) regulations. The Public Law, Title 10, Title 32, and Title 42 provide the authorization from the U.S. Congress to implement the TPC program in DoD. The DoD and BUMED instructions provide the background, policy, procedures, organization, action, forms, and reports to be used in a TPC program.

The issue of TPC is also important in the civilian sector. As Healthcare Maintenance Organizations (HMOs) and Preferred Provider Organizations (PPOs) become squeezed for cash, these organizations are also seeking to claim

reimbursement from third party sources. A business or group will pay a HMO or PPO to render healthcare to its beneficiaries based on a flat rate per the average number of employees per month. Depending upon how the HMO or PPO has calculated its risk and managed its resources will determine whether the HMO or PPO is profitable or not.

HMOs and PPOs will generally have an approved provider list from which beneficiaries can seek healthcare and some sort of preauthorization criteria. If the patient does not follow the preauthorization criteria and seeks healthcare from an unapproved source, the patient may become liable for some or all of the expense generated from that healthcare encounter. In the DoD TPC program, the beneficiary is currently not liable for third party deductibles or copayments.

The civilian sector will also seek to collect from third party liability cases. Third party liability usually results from automobile accidents or liability cases.

The HMO or PPO can expect long delays to occur in these types of collections due to the litigation and court cases which can result. The HMO or PPO generally can not collect until the litigation is completed.

DoD assigns responsibility to the Assistant Secretary of Defense (Health Affairs) to issue policy guidance and provide oversight for the TPC program. The Secretaries of the Military Departments are to ensure that TPC policies and

directions are implemented and carried out. Each commander of a Military Medical Treatment Facility (MTF) is responsible to implement a TPC program and to provide adequate resources, leadership, training and support. Each commander must be sure that all revenues collected are used appropriately.

Inpatient hospital care was subject to TPC starting
October 1986. Authority to collect for Medicare
supplemental plans, automobile liability, no-fault insurance
plans, and outpatient care was given in November 1990. (DoD,
1993). The MTF is responsible to

"implement an outpatient collection program unless analysis demonstrates that it would not be cost effective to implement the program on an interim basis." (DoD, 1993).

Health insurance information is certified by a beneficiary on each admission or visit to a MTF. A patient must update or sign a new form during their first visit or after 12 months have passed.

DoD has allowed TPC to be billed for MTF outpatient and inpatient care as well as for high cost ancillary services or prescription drugs. The DoD instruction states

"If a Uniform Services facility provides certain high cost ancillary services, prescription drugs, or other procedures

based on a request from a source other than a Uniform Services facility and not incident to an outpatient visit or inpatient service at the MTF, the charge will not be based on the usual per visit or per diem rate. Rather, a separate standard rate shall be charged to recover the cost of the particular highcost service, drug, or procedure provided. This special rule applies only to services, drugs, or procedures having a cost of at least \$100. cost for the services, drugs, or procedures to which this special rule applies shall be calculated and published annually by the DoD Comptroller." (DoD, 1993)

Table 1 contains the FY-93 radiology studies which could be billed for TPC and the calculated cost of the service. Table 2 contains the FY-94 allowed TPC radiology billing list. This list changed slightly from FY-93. The average CHAMPUS allowable for each type of study is provided as a comparison.

Table 1

FY-93 TPC Billed Radiology Services Allowed

	Cost of
Service	<u>Service</u>
Gastrointestinal (G.I.) Studies	\$201
Computerized Axial Tomography (CAT) Scan	\$287
Mammogram	\$171
Magnetic Resonance Imaging (MRI)	\$155
Nuclear Medicine Scan	\$238
Thallium Scan	\$688
Ultrasound	\$1,109

Table 2

FY-94 TPC Billed Radiology Services Allowed

		Avg
	Cost of	Champus
	<u>Service</u>	<u>Allowable</u>
X-Ray ribs (all), per side	\$113	\$17
X-Ray ribs, Bilateral	\$114	\$14
Upper gastrointestinal (G.I.) study	\$143	\$40
with contrast		
Hysterosalpingogram	\$126	\$32
Mammogram, Bilateral or with localizatio	n \$129	\$31
Ultrasound, per study	\$116	\$60
Ultrasound, complete abdomen/biopsy	\$198	\$61
CAT scan head/brain without contrast	\$193	\$108
CAT scan head/brain with contrast	\$218	\$105
CAT scan head/brain with and without	\$307	\$127
contrast, or post fossa and IAM/IACS		
CAT scan chest	\$339	\$133
CAT scan abdomen, per study	\$169	\$141
CAT scan extremity without contrast	\$197	\$89
CAT scan extremity with contrast	\$226	\$157
CAT scan with and without contrast	\$393	\$150
MRI without contrast	\$279	\$200
MRI with contrast brain	\$481	\$481
MRI spine (all) chest and abdomen	\$229	\$229
without contrast		
MRI spine (all) with contrast	\$507	\$300
MRI extremities without contrast	\$360	\$298
MRI extremities with and without contras	t \$279	\$279

The first general x-ray study of ribs appears in the FY-94 list, while the nuclear medicine and the Thallium studies do not appear in the FY-94 listing. The average

CHAMPUS allowable is usually much less than the cost of service billed. The Third Party Payor is likely to have a set allowable payment for each type of study, much like the CHAMPUS allowable. The facility is unlikely to receive the billed cost of service and will most likely to forced to write off a considerable amount of the billed charges.

The radiological studies have been better defined with a more specific description of the study. The TPC office will need to assign CPT codes in order to submit a bill to the TPP. Some of the radiology exams can easily be assigned a CPT code, while other radiology examinations are not easily assigned a CPT code. With the FY-94 list detailing the radiological studies, a better matching to the CPT-4 code can be accomplished. This is important for billing purposes. Most TPP will look for the CPT-4 code and will have an allowable charge for that particular code. If no CPT-4 code is submitted on the bill to the third party payor, this may cause a delay in reimbursement as the TPP may ask for additional information before paying the charge.

The Radiology Department currently only accepts requests from military and NH internal partnership health care providers. If a patient presents a request for radiological services to the NH Radiology Department from a external civilian physician, the request is denied and the patient is instructed to locate a CHAMPUS provider of radiology services. Some of the reasons the request is

denied is due to a lack of manpower in the Radiology

Department and the logistics of returning the transcription

results to the requesting civilian physician. Since the

Radiology Department at the NH Charleston does not accept

radiological requests from external institutions, it cannot

participate in the TPC program and collect TPC for high cost

radiology procedures.

# Purpose of the Study

The purpose of this study to perform a cost/benefit analysis of implementation of a TPC program for Radiology services at NH Charleston. Data related to direct care workload, CHAMPUS workload, Supplemental Medicine expenses and staffing requirements will be collected and analyzed. Internal and external implementation factors will also be considered.

#### CHAPTER II

#### METHODS AND PROCEDURES

#### Facility Assessment

Before the Radiology Department can be assessed, it is important to assess its parent organization - NH Charleston. The NH Charleston is a 90 bed inpatient acute care hospital. The hospital was commissioned for operation in 1973 and is accredited by the Joint Commission on Accreditation of Healthcare Organizations. The hospital is located at 3600 Rivers Avenue, North Charleston, South Carolina 29405-7769 and currently supports three branch medical clinics. branch medical clinics are located at the Naval Shipyard Charleston, Naval Station Charleston, and Naval Weapons Station Charleston. The Naval Station and Naval Shipyard in Charleston have been ordered to cease operations and close by the 1993 Base Realignment and Closure Commission (BRAC). The Naval Station and Naval Shipyard will have reached operational closure by 1996. The Naval Station and Naval Shipyard Branch Medical Clinics will be closed shortly after the operational closure of the Naval Station and Naval

Shipyard. The Naval Weapons Station Branch Medical Clinic will continue operations.

Services provided: The NH Charleston has seven main operating rooms, one Urology operating room, two obstetric delivery rooms, one obstetric operating room, and one minor surgery room. The medical specialties provided are included in Table 3.

#### Table 3

# Naval Hospital Charleston Medical Specialties Provided

Internal Medicine Dermatology Mental Health Emergency Medicine Pediatrics Family Practice Optometry General Surgery Physical Therapy Orthopedics Obstetrics Gynecology Ophthalmology Urology Otorhinolaryngology Anesthesiology Dental

Strengths and weaknesses: NH Charleston has several strengths which includes strong leadership at the executive level, strong working relationship with the Charleston Air Force Base (CAFB), excellent medical support in the civilian community, and a commitment to Total Quality Leadership (TQL) principles. The major weaknesses are rapid turnover of military personnel and the vulnerability to the BRAC.

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The Executive Committee is very active and meets on a daily basis to discuss issues and to resolve problems. The Commanding Officer (CO) holds regular Captain's Call and meets with all the Department Heads on a monthly basis. The command makes heavy use of the electronic mail system and provides a daily bulletin for all hands.

The Air Force has been a key partner in providing healthcare to the Charleston area. The Executive Officer (XO) of the Naval Hospital will be an Air Force Colonel starting in June 1994. There is an Air Force Pediatrician on hospital staff, and the Air Force medical clinic has been represented at several major strategic planning meetings.

There are several community and specialty hospitals in the Charleston area as well as the Medical University of South Carolina. These civilian institutions provide an opportunity to establish internal and external partnerships and to provide specialty care not available at the Naval Hospital.

The command has instituted a TQL office and has staffed it with two full time employees. The Executive Steering Committee (ESC) meets on a weekly basis to examine issues related to TQL and to receive reports from the Quality Management Boards (QMB) and Process Action Teams (PAT).

As with most military facilities, there is a rapid turnover of military personnel. The CO and XO are here for only a two year tour, most officers are here three years, and most enlisted staff are stationed for four years. Since most strategic plans take three to five years to implement, the military hospital staff will have almost a complete turnover before most strategic plans can be fully implemented. This can cause problems in personnel training and commitment to the strategic plan.

Most of the Navy active duty population will leave Charleston due to the BRAC order to close the Naval Base and Naval Shipyard. The Naval Hospital Charleston will be considered for closing during the 1995 BRAC. It is difficult to develop strategic plans if the future of the organization is unknown due to external forces.

Mission, goals and objectives: The mission statement of the NH Charleston is:

"Our mission is to keep the active duty members of all Armed Services healthy, and to provide health care to their families and other beneficiaries entrusted to our care."

The vision statement of the NH Charleston is:

"We want to be acknowledged as the model health care system in the Department of Defense.

- By delivering responsive medical services to fleet and shore based activities.
- By providing high quality, readily accessible care at a reasonable cost through successful integration of all military and community health care assets.

- By fostering a work environment which is professionally and personally enriching.
- By becoming an education center for primary medical care and community health.
- By Promoting innovation through the principles of Total Quality Leadership."

The guiding principles of the NH Charleston are:

- "- Customer service will be our primary focus in all decision making.
- Recognize that our primary mission is to support combat readiness.
- Manage the delivery of health care services, balancing access, quality and cost containment.
- Enhance a spirit of teamwork to improve communication and eliminate organizational barriers.
- Care for all persons as unique human beings worthy of our best professional efforts applied with courtesy, compassion, and respect.
- Guard against inflexibility which interferes with meeting the needs of our customers."

The goals of the NH Charleston are:

- "o We will remain committed to maintaining operational readiness.
- o We will optimize the delivery of health care services.
- o We will maximize the high quality of patient care.
- o We will create an internal environment that combines a quality life style with meaningful, productive work.

- o We will promote a positive internal and external image for the command.
- o We will promote wellness, protect the environment and prevent disease.
- o We will commit to professional development, education and training of all Naval Hospital personnel." (Naval Hospital Charleston Strategic Plan, 1994)

Relationship to civilian providers/institutions: The Naval Hospital has many direct relationships with civilian institutions and providers. The Naval Hospital has internal partnerships with civilian health care providers for anesthesiology, Family Practice, Internal Medicine, OB/GYN Nurse Practitioner, OB/GYN Nurse Midwife, Psychiatry, and Radiology. These internal partners come into the Naval Hospital and provide care for CHAMPUS eligible beneficiaries.

There are external partnerships for cardiac catherization and lithotripsy. Active duty military providers go into civilian institutions and provide care for DoD eligible beneficiaries.

The Naval Hospital has contracted out its Acute Care
Clinic and its Emergency Room services. These services are
provided inside the Naval Hospital for DoD eligible
beneficiaries. All health care providers and support staff
members are contract workers. The hospital also is
responsible for oversight of the NAVCARE contract. NAVCARE
is a contracted outpatient clinic which provides medical

care to DoD beneficiaries on an appointment basis. The scope of medical care that NAVCARE can provide is limited to primary care.

The NH Charleston is a Catchment Area Management (CAMCHAS) demonstration site. The CAMCHAS Network has 810 providers in 11 facilities covering 53 specialties. The network has negotiated discounts which range from 0% to 30% off the CHAMPUS allowable rates based upon individual fair market value evaluation.

Management and organization: There are about 1,300 military and civilian staff members at the NH. There are about 471 civilians, 287 officers and 511 enlisted personnel at this command. Table 4 contains the breakdown of the hospital staffing.

Table 4

Naval Hospital Charleston Staffing

	Military	Civilian
Staff officer	7 -	0
Physicians	108	4
Dentists	2	0
Nurses	117	33
Admin/allied health	45	41
Dental Tech	4	1
Corpsmen/Techs	483	98
Other staff	24	294

The NH is a military organization with a CO, XO, special assistants and eight directorates as the core management organization. The directorates are then broken down into departments and divisions. The command organization chart is listed as Appendix (A). The NH CO has

several organizations that he directly reports to including a Navy Responsible Line Commander, the Health Care Support Office Jacksonville, and DoD region 3 Lead Agent Commander.

The NH had an FY-93 operating budget of about 38.2 million dollars and a catchment area CHAMPUS cost of about 35 million dollars. The Charleston Catchment area currently contains approximately 95,000 DoD beneficiaries of which there are about 25,000 active duty, 38,000 dependents of active duty, and 32,000 retirees and dependents of retirees. With the closing of the Naval Shipyard and Naval Station in Charleston, the DoD beneficiary population is expected to shrink by FY-96 to a total of approximately 57,000 of which there are about 10,000 active duty, 15,000 dependents of active duty and 32,000 retirees and dependents of retirees. Appendix (B) contains the current and projected population data.

The NH is expected to downsize from a 90 bed inpatient facility to a 40 bed inpatient facility. Several medical specialties will have physicians transfer with no relief expected. The Family Practice Residency has been discontinued at the NH and the first and second year residents will be transferred to other residency programs. To meet the demands of the beneficiary population, health care will be delivered by a multi-disciplinary team approach.

# <u>Departmental Assessment - Radiology</u>

The Radiology Department at the NH Charleston provides a wide range of diagnostic radiological services as requested by health care providers on an inpatient and outpatient basis for DoD eligible beneficiaries. The Radiology Department is located on the first floor of the Naval Hospital Charleston.

Services provided: The Radiology Department offers most forms of diagnostic radiology. The Radiology Spaces have 4 general purpose X-ray rooms, 2 combination fluoroscopy/general purpose X-ray rooms, 2 mammography rooms, a CAT scanning room, 3 ultrasound examination rooms, a nuclear medicine examination room, a nuclear medicine laboratory room, 4 radiologist reading rooms, 4 radiologist offices, general radiology darkroom, mammography darkroom, ultrasound darkroom, file rooms, technician offices, dressing rooms, and supply storage rooms.

The MRI services are provided by a mobile trailer which is on site about 3 days a week. Table 5 lists the radiological services that are offered at the NH. Table 6 outlines the equipment available in the Radiology Department, the date purchased and the expected date of replacement.

## Table 5

# Naval Hospital Charleston Radiology Services

Computerized Axial Tomography (CAT) scan
Magnetic Resonance Imaging (MRI)
Mammography
Nuclear Medicine
Portable Radiology
Ultrasound
Urology Imaging
Diagnostic radiology
Gastrointestinal (G.I.) studies
Fluoroscopy

Table 6

Naval Hospital Charleston Radiology Equipment

Equipment	Purchased	Replace <u>Due</u>
Explorer II portable x-ray unit	8/93	8/03
AMX-4 portable x-ray unit	6/92	6/00
AMX-3 portable x-ray unit	8/83	8/93
AMX-4 portable x-ray unit	3/88	3/98
Siemens CAT scanner	8/88	8/97
CGR Mod 500t mammography unit	5/87	5/95
LORAD screening mammography unit	11/93	11/01
LORAD Stereotactic mammo	11/93	11/01
DIASONICS ultrasound unit	1/89	1/95
DIASONICS ultrasound unit	9/90	9/96
G.E. RAD unit	11/91	11/99
VECTOR RAD/FLUORO/HEAD unit	4/92	4/00
G.E. RAD/FLUORO unit	5/87	5/95
G.E. RAD/TOMO unit	NA	NA
PICKER RAD/TOMO unit	3/92	3/00
PICKER RAD unit	5/93	5/01
KODAK M6B film processor	10/87	10/95
KODAK M6B film processor	8/88	8/96
KODAK M35AM film processor	NA	NA
KODAK 480RA film processor	12/93	12/01
KODAK M35 film processor	NA	NA

<sup>\*</sup> NA = Information not available

The Radiology Department may be able to increase workload for CAT, mammography, ultrasound, upper GI and nuclear medicine without a negative impact on operational

effectiveness. The Radiology Department floor plan is listed in Appendix (C).

Strengths and Weaknesses: The Radiology Department has a full compliment of personnel, relatively good equipment and access to a broad base of radiology services in the civilian community. Some of the weaknesses include the rapid turnover of department heads and possible problems modernization equipment at its replacement date due to BRAC considerations.

The Radiology Department is fully staffed and is at the number of authorized billets with both military and civilian personnel. Its equipment is fairly modern and state of the art. The department has access to the medical university and other civilian resources for professional development and medical support.

The Radiology Department has had four different department heads within the last four years. This make it difficult to provide consistency for departmental planning and leadership purposes.

With the hospital under consideration for closure by the FY-95 BRAC, it will be difficult to justify replacement of major pieces of equipment on projected replacement dates. There may be a feeling at the BUMED and DoD level that the replacement equipment or money could be better used at another facility not under consideration for closure.

Mission, goals and objectives: The Radiology Department has not established its mission, goals, or objectives at this point. The department is examining the command mission, goals, and objectives and is in the process of establishing departmental mission, goals, and objectives. It is fairly important for the Radiology Department to establish these so that it can develop its business plan and proceed with its strategic planning.

Relationship to civilian providers/institutions: The Radiology Department has a civilian radiologist on staff. It also shares the mobile MRI unit with other civilian institutions.

The 437th Medical Squadron at the Charleston Air Force
Base has very limited radiological capability and their
radiology clinic is staffed with 3 technicians. All complex
radiological exam requests are sent to the NH Charleston for
scheduling.

Management and organization: The Radiology Department has a operating target for its FY-94 budget of \$427,500 and the Nuclear Medicine Clinic is budgeted for \$103,550. The department has a civilian labor budget of \$547,692.

The Radiology Department Head reports to the Director of Ancillary Services for command and control purposes. The department has a departmental staffing of 53 which includes 3 officers, 28 enlisted and 22 civilians. These numbers include the Clinical Nuclear Medicine staff, but do not

include the Radiation Safety Office staff. Table 7 contains the authorized billets and staffing levels for both civilian and military for the Radiology Department. In the radiology Department, there are two personnel on a limited duty status and three personnel engaged in on the job training. These personnel may represent more of a drain on the supervisory and technical personnel than an asset. If these five personnel are subtracted from the total manpower count, then the Radiology Department is at its authorized manpower of 48 people.

Table 7

Naval Hospital Radiology Department Staffing

	Billets	Currently
Active Duty	<u>Authorized</u>	On Board
Radiologists	3	3
HM 8452	13	12
HM 8451	8	8
HM 8416	2	3
Limited Duty	0	2
On Job Training	0	3
	·	
	26	31
Civilian	Authorized	On Board
Radiologist	1	1
Ultrasound Technician	2	2
Radiology Technician	8	8
Transcriptionists	2	2
Secretary	1	1
Clerical	7	7
Darkroom	1	1
	turn with time	
	22	22
	===	===
	48	53

The NH Charleston is scheduled to downsize to 40 inpatient beds and 700 staff by the end of FY-95. To

accomplish the downsizing, a reduction in civilian force from 500 to 300 civilian employees is expected to take place. Due to the downsizing of the hospital, the Radiology Department is scheduled to lose 14 of the 22 civilian positions. The Radiology Department Head has expressed concern that the scheduled reduction in civilian positions will cause the Radiology Department to be short staffed. The proposed reduction is under review. The positions to be disestablished account for about \$282,315 of the civilian labor budget. Table 8 lists the radiology positions which are scheduled to be disestablished by the end of FY-95.

Table 8

Naval Hospital Charleston Radiology Department Reduction In Force

Medical Instrument Technician	GS-9	32,466
Lead diagnostic rad technician	GS-8	29,396
Diagnostic rad technician	GS-7	26,541
Diagnostic rad technician	GS-7	26,541
Diagnostic rad technician	GS-7	26,541
MED clerk	GS-5	21,426
OA clerk	GS-3	17,062
OA clerk	GS-3	17,062
OA clerk	GS-3	17,062
Health aid	GS-3	17,062
File clerk	GS-3	17,062
File clerk	GS-3	17,062
File clerk	GS-3	17,062

# Third Party Collections - Inpatients

The NH Charleston collected approximately 1.9 million dollars for inpatient TPC in FY 93. (Childers, 1994). When the patient is sent to the Admissions Department, the TPC form (NHCHASN 7000/1) is completed and signed by the patient. This form indicates whether the patient has a

separate health insurance policy other than CHAMPUS or MEDICAID.

An admission package is forwarded to the TCP office and the patient is placed in an incomplete status. When the patient is discharged, the Patient Administration staff will encode the inpatient record and assign a Diagnostic Related Grouping (DRG) to the inpatient record. The Composite Health Care System (CHCS) will change the record status from incomplete to complete. This information is forwarded to the TCP Department. If the patient has a third party payer, a bill is generated and sent to the third party payer. If the patient does not have a third party payer, then the TCP Department admission package is destroyed.

# Third party Collections - Outpatient

The NH Charleston collected approximately 0.7 million dollars for outpatient TCP. (Childers, 1994). When the outpatient medical record is created, the TCP form (NHCHASN 7000/1) is completed and signed by the patient. This form indicates whether the patient has a separate health insurance policy other than CHAMPUS or MEDICAID. When the patient presents to an outpatient clinic for treatment, the NHCHASN 7000/1 form is checked to see if the patient has a separate health insurance policy or not.

A patient encounter form is completed at the clinic reception desk by the clinic receptionist. The health care provider needs only to check a diagnosis box and return the

encounter form to a central collection area. The encounter forms are collected from the clinics on a daily basis by the TPC department staff. Bills are generated and sent to the third party payers.

Approximately 15 to 20 percent of the total patient visits have some form of third party payer. When the patient does have a third party payer and a bill is sent to the third party payer, about 60 percent of the billed amount is allowed and paid. (Childers, 1994). The Outpatient TPC Summary by Clinic is contained in Appendix (D).

# Third Party Collections - Pharmacy

The NH Charleston Pharmacy started TCP in October 1992.

The Pharmacy had already been accepting prescriptions from external providers and saw the TCP as a way of being reimbursed for workload already being performed. Table 9 is the TPC summary for the NH Charleston Pharmacy.

Table 9

# OUTPATIENT TPCP SUMMARY FOR PHARMACY 01 OCT 93 to 11 APR 94

	Number	Amount
Billed	358	\$55,009
Collected	56	\$6,137
Write-offs	444	\$7,790

# Third Party Collections - BUMED Activities

The Bureau of Medicine and Surgery (BUMED) gives TPC program oversight responsibility to MED-142B. MED-142B is responsible to give guidance to BUMED activities in implementing their TPC programs. In second quarter FY-93,

NH Charleston had the 4th highest BUMED TPC billing and collection rate out of 25 BUMED activities. NH Charleston had reported cumulative billings in the amount of \$2,270,759 for second quarter FY-93. The only BUMED facilities with a better TPC billing rate were major teaching hospitals which were the National Naval Medical Center (NNMC) with a billing of \$4,100,060; Naval Medical Center (NMC) Portsmith with \$3,754,824; and NMC San Diego with \$2,950,689. The BUMED TPC Summary Report for 2nd quarter FY-93 is located in Appendix (E).

# <u>Direct Care Workload - Radiology</u>

The major method of accounting for workload in the MTF in DoD is the Medical Expense Performance Reporting System (MEPRS). According to the Defense Medical Information System (DMIS), NH Charleston Radiology had a FY-92 MEPR weighted workload value of 297,001. These values indicate the values for both inpatient and outpatient radiology procedures. Each full time equivalent Radiologist should be able to process 10,000 to 15,000 diagnostic procedures per year. (Sunshine, Bansal, 1992). In FY-92, the Radiology Department performed approximately 48,000 studies with the breakdown of studies contained in table 10. (CHCS, 1994).

Table 10

FY-92 Breakdown of Radiology Studies

Computerized tomography	2,580
Magnetic Resonance Imaging	738
Ultrasound	4,788
Nuclear Medicine	1,094
Mammography	1,968
Fluoroscopy	1,434
Plain films	35,286

In FY-93, the Radiology Department again performed approximately 57,000 studies with the breakdown of studies contained in table 11. (Radiology QI minutes, 1994).

Table 11

FY-93 Breakdown of Radiology Studies

Computerized tomography	2,364
Magnetic Resonance Imaging	1,199
Ultrasound	6,000
Nuclear Medicine	1,044
Mammography	1,884
Fluoroscopy	1,378
Plain films	44,448

There are reported problems in workload accounting and certain procedures may in fact be under accounted for or over stated in terms of workload reporting. In some cases, Radiology procedures may be double counted to account for workload performed. It is difficult to have a standard reporting process, and a combination of documented workload and Radiology Department Head reporting have been used to generate the workload numbers. This will be different than numbers contained in the standard reporting systems and the numbers which are reported to higher authority.

Table 12 outlines the number of inpatient and outpatient radiologic procedures performed at the Naval Hospital for FY-92 and FY-93. The number of procedures is extracted for the Radiology Quality Assurance Minutes and the CHCS management reports.

Table 12

	Naval Hospital	Radio	отоду	Numbe	er or	Inpa	tient	and	Outpa	tient	Exam	ınatı	ons		
	FY92	199	1		1992	2									
		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	TOTA	L AVG
	CT	0	D	o	0	O	0	0	65	228	207	166	167	83	3 167
	MRI	67	64	65	67	48	73	71	56	63	52	63	49	73	8 62
	ULTRASOUND	612	568	557	388	297	362	345	339	328	324	319	349	478	8 399
	IVP/CYSTO/VCUG	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	68	63	13	1 66
	NUC MED	72	37	235	27	95	88	99	91	86	87	87	90	109	4 91
	MAMMO	184	155	121	204	159	189	204	190	177	75	170	140	196	8 164
	FLUORO	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	105	118	22	3 112
	PLAIN FILMS	3447	2968	2762	3020	2706	3349	3028	2915	2677	2702	2587	2770	3493	1 2911
	PORTABLES	283	199	235	319	264	277	198	217	227	227	300	300	304	6 254
	UROLOGY	32	38	6	0	2	4	4	8	1	9	60	60	22	4 19
	CLINICS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	N	a na
	TOTALS	4697	4029	3981	4025	3571	4342	3949	3881	3787	3683	3925	4106	47 97	c 3 998

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Table 12
Naval Hospital Radiology Number of Inpatient and Outpatient Examinations

FY93	1992			1993										
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	TOTAL	AVG
CT	172	203	176	192	212	204	197	204	239	191	211	167	2368	197
MRI	64	81	84	78	111	105	89	118	146	119	103	101	1199	100
ULTRASOUND	344	373	285	281	346	326	345	347	339	303	402	359	4050	338
IVP/CYSTO/VCUG	32	36	33	31	51	35	33	21	28	70	75	72	517	43
NUC MED	80	99	84	81	98	81	83	97	106	83	81	70	1043	87
OMMAM	132	174	100	105	174	163	178	206	181	175	172	128	1888	157
FLUORO	132	100	76	83	128	149	135	117	123	116	119	100	1378	115
PLAIN FILMS	2575	2933	2357	3153	2989	2918	3189	2693	2535	2177	2345	2452	32316	2693
PORTABLES	295	300	245	328	45	324	326	230	384	171	176	184	3008	251
UROLOGY	60	60	60	60	60	60	60	60	60	60	60	60	720	60
CLINICS	NA	NA	NA	NA	NX	NA	NA	NA	NA	NA	NA	700	700	700

TOTALS 3886 4359 3500 4392 4214 4365 4635 4093 4141 3465 3744 4393 49,187 4,099
NA - INFORMATION NOT AVAILABLE

A major problem with comparison of direct care workload and CHAMPUS workload is CHAMPUS workload is reported by CPT code and direct care workload is reported by weighted workload values. The only way to break down the direct care workload is by depending on internal radiology department reporting. Since there is no standard internal reporting, the reporting method and results will vary by institution and department supervisors.

Radiology departments have been allowed to decide internally whether to accept civilian requests for radiological procedures or not. Radiology Department heads may make this decision based on the resources available such budget, personnel and equipment. The Radiology workload summary is contained in Appendix (F).

It would be difficult in immediately start accepting every request for Radiological studies from an external provider without having an adverse impact on the Radiology Department. The NH Charleston Radiology Department could probably increase capability in several areas by extending normal working hours or adjusting personnel assignments. The primary concern of the Radiology Department Head is to provide high quality and responsive service to the providers it serves.

# CHAMPUS Workload - Radiology

The TPC program for Radiology is designed to allow MTF radiology departments to be reimbursed for external civilian radiology requests. The Charleston Catchment Area Management Database tracks outpatient radiology procedures charged to CHAMPUS by CPT code. The CPT codes for radiology are a five digit number with a range of 70000 to 79999. CPT codes are generally grouped by anatomy for CT, MRI and plain films. For example, a CT of the abdomen with contrast is coded 74160, abdomen CT without contrast is 74150, abdomen CT with and without contrast is 74170, abdomen MRI is 74181, and plain film abdomen is coded from 74000 to This manner of coding makes it extremely difficult to separate and count MRI, CT and plain film procedures. Nuclear Medicine, Ultrasound and vascular procedures are coded sequentially which makes it easier to count these types of studies.

The CHAMPUS database reported about 27,948 outpatient radiological procedures with a government allowance of about \$2.9 million dollars in FY-92. This allowance would have been reduced by patient deductibles and copayments. Table 13 contains the outpatient radiological were assigned to the NH Charleston catchment area and were billed to CHAMPUS in FY-92.

Table 13

### FY-92 CHAMPUS Radiology Services

Computerized tomography	1,021
Magnetic Resonance Imaging	451
Ultrasound	1,376
Nuclear Medicine	440
Mammography	866
Fluoroscopy	480
Plain films	21,494
Radiation Therapy	1,729

In FY-93, CHAMPUS processed claims for approximately 35,059 outpatient radiological procedures. Table 14 contains the outpatient radiological were assigned to the NH Charleston catchment area and were billed to CHAMPUS in FY-93. A detailed listing of the FY-93 Radiology CHAMPUS procedures is contained in Appendix (G).

Table 14

#### FY-93 CHAMPUS Radiology Services

Computerized tomography	1,518
Magnetic Resonance Imaging	376
Ultrasound	1,491
Nuclear Medicine	508
Mammography	754
Fluoroscopy	681
Plain films	27,895
Radiation Therapy	1,763

# Supplemental Medicine Workload - Radiology

Supplemental Medicine is medical care provided to DoD beneficiaries in the NH Charleston catchment by external organizations and billed to the NH Charleston. All active duty personnel who receive authorized care from civilian medical facilities fall under this category. Dependents and retirees may have their medical costs covered by supplemental medicine if they are admitted to the Naval Hospital but must be transported to a civilian hospital for specific tests and returned to the Naval Hospital after the testing is completed.

NH Charleston leases a MRI trailer to perform MRI studies on site three days a week. Supplemental Medicine funding has historically paid the cost of the MRI trailer and testing. NH Charleston may shift to a Cooperative Care Program which would allow the MRI company to bill CHAMPUS for performing studies on dependents and retirees and would require the dependents and retirees to cost share with deductibles and copayments for MRI studies performed on site.

# Staffing Models - Radiology

If the TPC program for radiology was implemented at the NH Charleston, it could dramatically increase the workload for the department without a corresponding increase in personnel. One of the major reasons to not implement the TPC program for Radiology is the concern of not having

enough manpower to meet the expected patient demand. It is important to examine the current staffing level against some sort of standard to determine whether the Radiology Department is adequately staffed.

In 1992 the Radiology Department completed a desk audit which determined its current staffing level. The operational audit, to determine the most efficient organization, resulted in a calculated 6811.763 monthly man hours and asked for 47 billets. (Naval Hospital, 1992).

Realizing personnel assignments change as the workload requirements and military billet authorizations change, to look at the personnel assignments is looking at a snapshot in time. Table 15 contains the current staffing assignments for the NH Radiology Department.

To give another sanity check to the manpower requirements, the Defense Medical Information System (DMIS) was queried. The latest workload information contained in DMIS is for FY-92. The weighted workload for NH Charleston Radiology for FY-92 was 297001. (DMIS, 1994). The Noncommissioned Officer in Charge (NCOIC) or Leading Petty Officer (LPO) for radiology of other similar size facilities with similar weighted workload were contacted and compared in Table 16. Most of these facilities have CAT, Mammography, Ultrasound, and Nuclear Medicine capability. The facility was asked for radiology authorized billets and not personnel on board to help normalize for any manpower

overstaffing or shortages. The authorized billets represent both technical and clerical support staff. The weighted workload is for FY-92 while the facility bed size and manpower authorizations are from FY-94. While this may skew the data, it is unlikely major manpower changes occurred in this time period for the majority of facilities. Weighted workload does not take into account the complexity of the study or the acuity of the patient. A department performing many simple exams may receive as much workload credit as a department which performs a few complex examinations. This was not a scientific survey and has a large margin of error, but provides another method of comparison for radiology staffing.

Table 15

<u>Current Radiology Staffing Positions</u>

Secretary	1
Film check	1
Appointment clerk	1
Front desk personnel	3
AM shift	12
PM shift	6
Night shift	2
Dark room	1
File room	3
Transcription	2
Ultrasound	2
Mammography	2
CAT	1
Operating Room	1
Nuclear Medicine	3
Branch Medical Clinics	3
Leading Chief Petty Officer	1
Staff Radiologists	4
Limited duty personnel	2
On the job training personnel	3
•	53

Table 16

## Weighted Workload Comparisons

			Authorize	ed
	Weighted		Enl/civ	Rad
Activity name	Workload	<u>Beds</u>	<u>Billets</u>	<u>Billets</u>
NH Bremerton, WA	383067	98	23	3
Blanchfield ACH, KS	370065	245	37	5
58th Medical Group, AZ	333318	60	18	3
Ireland ACH, KY	300803	159	30	4
NH Charleston, SC	297001	90	44	4
646th Medical Group, FL	270287	105	31	4
56th Medical Group, FL	223099	45	24	4

The FY-92 DMIS Radiology workload report is contained in Appendix (H). Noted that there is wide variation between the weighted workload value and the number of authorized billets for both support and professional staff. The high end weighted workload of 383067 for NH Bremerton has one less authorized technical/support and one less authorized

radiologist than the low end weighted workload of 223099 for the 56th Medical Group. It is important to note that scientific conclusions cannot be drawn from this data, but does provide a snapshot of how other Radiology Departments are staffed in DoD.

A important consideration is the workload on the Radiologist. Even if enough technical and support personnel are available, there must be enough Radiologists available to interpret the radiological studies. Studies in the literature suggests a diagnostic only radiology practice should average 10,000 to 15,000 procedures per full time equivalent Radiologist per year. (Sunshine, Bansal 1991). The NH Charleston radiology averages about 48,000 procedures per year and is authorized 4 full time Radiologists. The Radiology Department Head feels the number of procedures per year is actually closer to 60,000. These figures indicate the number of radiologists authorized at the NH are justified and perhaps may be able to justify a slight increase in the professional workload for the radiologists.

Another method of determining manpower requirements is the use of a Air Force staffing standard for Radiology. The Air Force formula was used due to its availability and ease of usage. A Navy staffing formula was not readily available.

The Air Force formula for calculating required monthly manhours for non-phase II training sites is:

Y1 = 199.9 + 0.4411Xt

where

Xt = X1 + 2.682X2 + 5.495X3 + 2.511X4 + 27.328X5 + 4.185X6 + 8.203X7 + 13.186X8

where

X1 = Average monthly radiographic procedures

X2 = Average monthly portable procedures

X3 = Average monthly fluoroscopic special and routine
 specials

X4 = Average monthly mammographic procedures

X5 = Average monthly weighted special procedures such as angiograms

X6 = Average monthly ultrasound procedures

X7 = Average monthly CAT scan procedures

X8 = Average monthly nuclear medicine procedures

Applying the formula using the radiology direct care

FY-93 data as reported in the Radiology QI minutes:

X1 = 3453 avg monthly radiographic procedures, includes branch medical clinics and Urology

X2 = 251 avg monthly portable procedures

X3 = 115 avg monthly fluoroscopic procedures

X4 = 157 avg monthly mammographic procedures

X5 = 12 avg monthly weighted special procedures

X6 = 500 avg monthly ultrasound procedures

X7 = 297 avg monthly CAT and MRI scan procedures

X8 = 87 avg monthly nuclear medicine procedures

Xt = 3453 + 2.682(251) + 5.495(115) + 2.511(157) + 27.328(12) + 4.185(500) + 8.203(297) + 13.186(87)

Xt = 11,155.743

Y1 = 199.9 + 0.4411Xt

Y1 = 5120.7 required monthly man hours

The Air Force applies a man-hour availability factor (MAF) of 160.7 to determine work center manpower requirements. (AFR 25-5, 1987) Applying the MAF to the required monthly man hours:

work center manpower requirements = required monthly man hours / MAF

work center manpower requirements = 5120.7 / 160.7 work center manpower requirements = 31.86

The model suggests to subtract nuclear medicine technicians out of the model, perform an additional mathematical operation, and then add the nuclear medicine technicians back into the model. This additional step was not performed and the Nuclear Medicine Technicians numbers are included in the model. The calculated monthly average number of procedures for ultrasound for FY-93 is 338. monthly average number of ultrasounds has been increased to 500 to compensate for additional unreported workload.

By applying the Air Force staffing model to the FY-93 direct care workload for radiology, the results indicate the requirement for 32 full time equivalents. The Air Force standard manpower table suggests the following specialty titles and grades contained in table 17. (AFMD 5202, 1991).

Table 17

Diagnostic Radiologists	*	3
Radiologic Superintendent	E-8	1
Radiologic Technician	E-7	2
Radiologic Technician	E-6	3
Radiologic Specialist	E-5	6
Radiologic Specialist	E-4	15
Medical Admin Specialist	E-4	1
Apprentice Admin Specialist	E-3	1
		32

This model assumes the normal operating hours are 8 hours per day, 5 days a week with additional support for patient care available 24 hours per day, 7 days per week. Staffing beyond normal duty hours must be accommodated within the manpower requirements provided by this manpower standard.

The Air Force staffing formula and the informal survey of radiology departments would indicate the Naval Hospital Charleston Radiology Department may be overstaffed for the technical and support manpower. The Air Force staffing model suggests the Radiology Department is overstaffed by 16 billets military or civilian billets. The radiology department may be able to process increased workload without a negative impact on current technical staffing. The Radiologist staffing appears to be correct and may require additional professional manpower to increase workload without a negative impact on the professional staff.

#### CHAPTER III

#### RESULTS

# Cost/Benefit Analysis

There are some general issues that must be considered before implementing a TPC program for Radiology. There is a real danger for the Radiology Department to become overwhelmed in terms of workload if it begins to accept all external civilian requests for radiological studies. DoD has set standard billing charges for selected radiology studies, but in many cases these charges are higher than the average CHAMPUS allowable. In this cost/benefit analysis, the CHAMPUS allowable is about \$0.415 for every \$1.00 billed.

The four major channels for military radiological services in Charleston are CHAMPUS providers, Supplemental Medicine, NAVCARE, and the Naval Hospital. There are some exams such as certain cardiac procedures and radiation therapy which cannot be performed at the Naval Hospital. These exams will continue to be paid by CHAMPUS or Supplemental Medicine. Another important consideration which cannot be quantified at this point is the radiological

exams paid by Medicare for retirees and dependents over the age of 65.

NAVCARE provides general diagnostic radiological services and mammograms. The NAVCARE mammography services are provided as requested by a physician. It is difficult to predict if there would be a workload shift from NAVCARE to the NH Charleston, if the NH Charleston began to accept external provider requests. The general diagnostic radiology at NAVCARE is used to support NAVCARE physicians and should not impact the Naval Hospital Radiological services.

The Supplemental Medicine expenses are used to pay for active duty medical services unavailable at this facility. It also pays for active duty members assigned to this catchment area, but are given medical services outside this catchment area while they are on leave, TAD, or other authorized reasons.

# MODEL 1 - ACCEPT ALL EXTERNAL CIVILIAN REQUESTS FOR RADIOLOGICAL PROCEDURES WITH MAXIMUM WORKLOAD EXPECTATIONS:

If the TPC program for Radiology is implemented, the major impact on the Naval Hospital Radiology will be from the patients receiving radiological requests from external providers and receiving these radiological services from CHAMPUS sources. The Naval Hospital processed about 58,000 radiological exams in FY-93, while about 33,000 outpatient radiological exam requests were processed by CHAMPUS. If

all the exams that were processed by CHAMPUS were instead completed at the Naval Hospital, this would increase the current Naval Hospital Radiology workload by 58% to about 91,000 radiological exams processed. This would require each of the four current Radiologists to read about 23,000 procedures per year. This number of procedures would overwhelm the professional staff. In fact by applying the Air Force Staffing model, this level of workload would require 6 Radiologists and 42 support staff. 'A contract Radiologist is paid by a percentage of the discounted CHAMPUS allowable per study. For the current contract radiologist, this fee averages between \$30,000 to \$50,000 per month. The maximum TPC for radiology to be billed would be about \$240,000 for approximately 1,540 procedures. amount would be the cost of service billed for all allowable radiology procedures. Since most TPPs will pay only the allowable, the maximum TPC for radiology that could be collected would be around \$60,000 per year. The \$60,00 figure is based on the following assumptions:

- 1. 100% of all the patients with an external provider requests for radiology came to the Naval Hospital for service.
- 2. The current service mix will remain the same as FY-93 service mix.
- 3. There is an external demand for about 31,000 radiological procedures. 7,700 exams out of this 31,000 will be a exam that is on the TPC for radiology allowable service for reimbursement listing.
- 4. Approximately 20% of the patients seen will have a third party payor. This means 1,500 exams out of this 7,700 exams meet both criteria of being on the TPC allowable listing and the patient having a third party payor.

- 5. The third party payor will have a payment schedule similar to the CHAMPUS allowable schedule.
- 6. There will not be a significant percentage of Medicare eligible patients with external provider requests for radiological services.
- 7. There will be a \$40,000 increase in contrast media costs for CAT scans
- 8. The radiology average monthly workload would be increased by:
  - 2325 radiographic procedures
    - 0 portable procedures
    - 57 fluoroscopic procedures
    - 259 mammographic procedures
      - 0 weighted special procedures
    - 125 ultrasound procedures
    - 158 CAT and MRI scan procedures
    - 42 nuclear medicine procedures

### Staffing model:

- X1 = 5778 avg monthly radiographic procedures, includes branch medical clinics and Urology
- X2 = 251 avg monthly portable procedures
- X3 = 172 avg monthly fluoroscopic procedures
- X4 = 416 avg monthly mammographic procedures
- X5 = 12 avg monthly weighted special procedures
- X6 = 625 avg monthly ultrasound procedures
- X7 = 455 avg monthly CAT and MRI scan procedures
- X8 = 129 avg monthly nuclear medicine procedures
- Xt = 5778 + 2.682(251) + 5.495(172) + 2.511(416) + 27.328(12) + 4.185(625) + 8.203(455) + 13.186(129)
- Xt = 16,817.19
- Y1 = 199.9 + 0.4411Xt
- Y1 = 7,617.96 required monthly man hours
- work center manpower requirements = 7,617.96/160.7
- work center manpower requirements = 48

Diagnostic Radiologists	*	6
Radiologic Superintendent	E-8	1
Radiologic Technician	E-7	3
Radiologic Technician	E-6	6
Radiologic Specialist	E-5	8
Radiologic Specialist	E-4	18
Medical Admin Specialist	E-4	3
Apprentice Admin Specialist	E-3	3

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The staffing model would indicate the Radiology

Department has enough support staff to process all external and internal requests, but would have not enough Radiologist support. The cost of additional contract Radiologists would exceed the maximum TPC that could be expected. The Radiology staff would also most likely have to purchase additional equipment and to extend the normal working hours of the department in order to process the additional workload.

# MODEL 2 - ACCEPT ALL EXTERNAL PROVIDER REQUESTS FOR RADIOLOGICAL PROCEDURES WITH REDUCED WORKLOAD EXPECTATION:

It is unlikely that any or all of these assumptions are true. It is unlikely 100% of all CHAMPUS patients would return to the Naval Hospital for any number of reasons. Some patients may feel the waiting times are excessive or there may be a perceive lower quality of care by going to a military treatment facility. The Naval Hospital Pharmacy estimates 40% of its workload is from filling external provider prescriptions.

By being a little more liberal in the workload assumption, this model will predict about 50% of all external provider requests for radiological services will be presented to the Naval Hospital. This model will predict the TPC for radiology to be billed would be about \$120,000 for approximately 770 procedures. The TPC for radiology to

be collected would be around \$30,000 per year. This figure is based on the following assumptions:

- 1. 50% of all the patients with an external provider requests for radiology came to the Naval Hospital for service.
- 2. The current service mix will remain the same as FY-93 service mix.
- 3. There is an external demand for about 15,500 radiological procedures. 3,850 exams out of this 15,500 will be a exam that is on the TPC for radiology allowable service for reimbursement listing.
- 4. Approximately 20% of the patients seen will have a third party payor. This means 770 exams out of this 3,850 exams meet both criteria of being on the TPC allowable listing and the patient having a third party payor.
- 5. The third party payor will have a payment schedule similar to the CHAMPUS allowable schedule.
- 6. There will not be a significant percentage of medicare eligible patients with external provider requests for radiological services.
- 7. There will be a \$20,000 increase in contrast media costs for CAT scans
- 8. The radiology average monthly workload would be increased by:
  - 1162 radiographic procedures
    - 0 portable procedures
    - 29 fluoroscopic procedures
  - 130 mammographic procedures
    - 0 weighted special procedures
    - 62 ultrasound procedures
    - 79 CAT and MRI scan procedures
  - 20 nuclear medicine procedures

#### Staffing model:

- X1 = 4616 avg monthly radiographic procedures, includes branch medical clinics and Urology
- X2 = 251 avg monthly portable procedures
- X3 = 143 avg monthly fluoroscopic procedures
- X4 = 286 avg monthly mammographic procedures
- X5 = 12 avg monthly weighted special procedures
- X6 = 563 avg monthly ultrasound procedures
- X7 = 376 avg monthly CAT and MRI scan procedures
- X8 = 109 avg monthly nuclear medicine procedures
- Xt = 4616 + 2.682(251) + 5.495(143) + 2.511(286) + 27.328(12) + 4.185(563) + 8.203(376) + 13.186(109)
- Xt = 13,998
- Y1 = 199.9 + 0.4411Xt

Y1 = 6,374.52 required monthly man hours work center manpower requirements = 6,374.52/160.7 work center manpower requirements = 40

Diagnostic Radiologists	*	4
Radiologic Superintendent	E-8	1
Radiologic Technician	E-7	3
Radiologic Technician	E-6	4
Radiologic Specialist	E-5	7
Radiologic Specialist	E-4	17
Medical Admin Specialist	E-4	2
Apprentice Admin Specialist	E-3	2
		40

This staffing model would suggest the Radiology

Department has enough support staff to process all external and internal requests, but would have not enough Radiologist support. The radiologists would have to read 19,000 exams per radiologist per year. The cost of additional contract Radiologists would exceed the maximum TPC that could be expected. The Radiology staff would most likely have to purchase additional equipment and to extend the normal working hours of the department in order to process the additional workload.

# MODEL 3 - ACCEPT ONLY EXTERNAL PROVIDER REQUESTS FOR RADIOLOGICAL PROCEDURES WITH TPC REIMBURSEMENT POTENTIAL

WITH REDUCED WORKLOAD EXPECTATION: Another possible option is to take the hard line approach and only accept external provider requests for radiology services which are on the TPC allowable reimbursement listing. This model assumes only 50% of all CHAMPUS patients would return to the Naval Hospital for radiological services.

This model will predict the TPC for radiology to be billed would be about \$120,000 for approximately 770 procedures. The TPC for radiology to be collected would be around \$30,000 per year. This figure is based on the following assumptions:

- 1. 50% of all the patients with an external provider requests for radiology came to the Naval Hospital for service.
- 2. The current service mix will remain the same as FY-93 service mix.
- 3. There is an external demand for about 15,500 radiological procedures. 3,850 exams out of this 15,500 will be a exam that is on the TPC for radiology allowable service for reimbursement listing. The other 11,650 external exams will be referred back into the external environment.
- 4. Approximately 20% of the patients seen will have a third party payor. This means 770 exams out of this 3,850 exams meet both criteria of being on the TPC allowable listing and the patient having a third party payor.
- 5. The third party payor will have a payment schedule similar to the CHAMPUS allowable schedule.
- 6. There will not be a significant percentage of medicare eligible patients with external provider requests for radiological services.
- 7. There will be a \$20,000 increase in contrast media costs for CAT scans
- 8. The radiology average monthly workload would be increased by:
  - 0 radiographic procedures
  - 0 portable procedures
  - 29 fluoroscopic procedures
  - 130 mammographic procedures
    - 0 weighted special procedures
  - 62 ultrasound procedures
  - 79 CAT and MRI scan procedures
  - 20 nuclear medicine procedures

#### Staffing model:

- X1 = 3453 avg monthly radiographic procedures, includes branch medical clinics and Urology
- X2 = 251 avg monthly portable procedures
- X3 = 143 avg monthly fluoroscopic procedures
- X4 = 286 avg monthly mammographic procedures
- X5 = 12 avg monthly weighted special procedures
- X6 = 563 avg monthly ultrasound procedures

X7 = 376 avg monthly CAT and MRI scan procedures
X8 = 109 avg monthly nuclear medicine procedures

Xt = 4616 + 2.682(251) + 5.495(143) + 2.511(286) + 27.328(12) + 4.185(563) + 8.203(376) + 13.186(109)

Xt = 12,835.243

Y1 = 199.9 + 0.4411Xt

Y1 = 5,861.53 required monthly man hours

work center manpower requirements = 5,861.53/160.7

work center manpower requirements = 37

Diagnostic Radiologists	*	4
Radiologic Superintendent	E-8	1
Radiologic Technician	E-7	3
Radiologic Technician	E-6	4
Radiologic Specialist	E-5	6
Radiologic Specialist	E-4	16
Medical Admin Specialist	E-4	1
Apprentice Admin Specialist	E-3	2
		37

This staffing model would suggest the Radiology

Department has have enough support staff to process all

external and internal requests, and would have enough

Radiologist support. The radiologists would have to read

about 62,000 total exams which is about 15,500 exams per

radiologist per year. Since the recommended number of

procedures per radiologist per year is 10,000 to 15,000

procedures, this places the number of exams to be read by a

radiologist at the upper end of the recommendation. This

will eliminate the requirement for additional contract

Radiologists. The Radiology staff may have enough

equipment, but may have to extend the normal working hours

of the department in order to process the additional

workload.

MODEL 4 - ACCEPT ONLY EXTERNAL PROVIDER REQUESTS FOR CAT

SCANS WITH TPC REIMBURSEMENT POTENTIAL WITH REDUCED WORKLOAD

EXPECTATION: Possibly the best option is to do a pilot study using one type of radiologic procedure. In this case, the CAT scan may be a good candidate to start the program.

This is a radiologic procedure which would only slightly increase the radiology workload. This model assumes only 50% of all CHAMPUS patients would return to the Naval Hospital for radiological services. Table 18 is the breakdown of expected TPC reimbursement for external provider requests for CAT scans.

Table 18

SUMMARY OF CHAMPUS CAT RADIOLOGICAL PROCEDURES
FY 93 DATA 01 OCT 92 TO 30 SEP 93
THIRD PARTY COLLECTIONS (TPC)

SERVICE PROVIDED	COST OF SERVICE	EST ALLOW COST	# POTENT TPC EXAMS	50% PATIENT DEMAND RADIO	# HISTOR TPC (20%)	THIRD PARTY	POTENT THIRD PARTY ALLOW
CAT HEAD/BRAIN WITHOUT CONTRA	T \$193	\$108	320	16	0 32	\$6,17	6 \$3,456
CAT SCAN CHEST	\$339	\$133	213	106.5	21 \$	7,221 \$2,	833
CAT SCAN ABDOMEN, PER STUDY	\$169	\$141	503	251.5	50 \$	8,501 \$7,	092
CAT SCAN EXTREMITY WITHOUT CO	TT \$197	\$89	4		2 0	\$7	9 \$36
CAT HEAD/BRAIN WITH CONTRAST	\$218 *	\$105	107	53.5	11 \$:	2,333 \$1,	124
CAT HEAD/BRAIN W/WO CONTRAST	\$307	\$127	120	60	12 \$	3,684 \$1,	524
OR FOSSA AND IAM/IACS		-			•	, , ,	
CAT SCAN EXTREMITY WITH CONTRA	AST \$226	\$157	4		2 0	\$9	0 \$63
CAT SCAN W/WO CONTRAS	\$393	\$150	220	11	.0 22	\$8,64	6 \$3,300
·	-	-		===	=== =		====
			1,491	746	149 3	6,729 \$19,	427

Contrast media \$75/patient. Contrast expense 226 x \$75 = \$19,950

This model will predict the TPC for radiology to be billed would be about \$36,729 for approximately 746 procedures. The TPC for radiology to be collected would be around \$19,427 per year. There would be about 226 studies that would require an injection of contrast media. The increased contrast media expense would be about \$19,950.

The net reimbursement would be about \$0. At this expected reimbursement, there would be no other purpose served by doing this pilot study, but to help to predict patient demand and projected revenue for a full implementation of the TPC program for Radiology. This figure is based on the following assumptions:

- 1. 50% of all the patients with an external provider requests for radiology came to the Naval Hospital for service.
- 2. The current service mix will remain the same as FY-93 service mix.
- 3. There is an external demand for about 15,500 radiological procedures. 746 exams out of this 15,500 will be an CAT exam that is on the TPC for radiology allowable service for reimbursement listing. The other 14,750 external exams will be referred back into the external environment.
- 4. Approximately 20% of the patients seen will have a third party payor. This means 149 exams out of this 746 exams meet both criteria of being on the TPC allowable listing and the patient having a third party payor.
- 5. The third party payor will have a payment schedule similar to the CHAMPUS allowable schedule.
- 6. There will not be a significant percentage of medfcare eligible patients with external provider requests for radiological services.
  - 7. There will be a \$20,000 increase in contrast costs

- 8. The radiology average monthly workload would be increased by:
  - 0 radiographic procedures
  - 0 portable procedures
  - 0 fluoroscopic procedures
  - 0 mammographic procedures
  - 0 weighted special procedures
  - 0 ultrasound procedures
  - 62 CAT and MRI scan procedures
  - 0 nuclear medicine procedures

#### Staffing model:

```
X1 = 3453 avg monthly radiographic procedures, includes
branch medical clinics and Urology
```

X2 = 251 avg monthly portable procedures

X3 = 115 avg monthly fluoroscopic procedures

X4 = 157 avg monthly mammographic procedures

X5 = 12 avg monthly weighted special procedures

X6 = 500 avg monthly ultrasound procedures

X7 = 359 avg monthly CAT and MRI scan procedures

X8 = 87 avg monthly nuclear medicine procedures

$$Xt = 3453 + 2.682(251) + 5.495(115) + 2.511(157) + 27.328(12) + 4.185(500) + 8.203(359) + 13.186(87)$$

Xt = 11,664.329

Y1 = 199.9 + 0.4411Xt

Y1 = 5,345.04 required monthly man hours

work center manpower requirements = 5,345.04/160.7

work center manpower requirements = 34

Diagnostic	Radiologists ·	*	3
Radiologic	Superintendent	E-8	1
Radiologic	Technician	E-7	2
Radiologic	Technician	E-6	4
Radiologic	Specialist	E-5	6
Radiologic	Specialist	E-4	15
Medical Adn	nin Specialist	E-4	1
Apprentice	Admin Specialist	E-3	2
			33

This staffing model would suggest the Radiology

Department has enough support staff to process all external and internal requests. The model suggests 3 radiologists for this workload, but the radiologists would have to read about 59,000 total exams which is about 19,600 exams per

radiologist per year. Since the recommended number of procedures per radiologist per year is 10,000 to 15,000 procedures, this exceeds the recommendation. If the fourth radiologist is maintained, the number of exams per radiologists per year is 14,750 which is within the recommendation. The Radiology staff should have enough equipment, and should not have to extend the normal working hours of the department in order to process the additional workload.

MODEL 5 - DO NOTHING (STATUS QUO): This option is always available. The hospital staffing, funding, and mission is changing rapidly. Hospital staffing and funding is likely to decrease. If the Radiology Department does nothing to seek alternate sources of revenue or to justify its current staffing, the department is most likely to be faced with decreased funding and staffing along with the rest of the hospital.

#### Strategic Opportunities

The Radiology Department is in a fairly good strategic position, in terms of personnel and equipment, to take advantage of the changing environment. The Radiology Department Head has worked extremely hard to offer a full service Radiology Department and to obtain adequate staffing. One of the primary functions of ancillary services such as radiology is to support the direct patient care efforts of physicians. The physicians involved in

providing direct patient are developing a hospital wide business plan. This hospital business plan should include the hospital services to be provided, the cost of these services, and the impact of these services on our beneficiary population.

The NH Charleston will face decreased staffing and decreased funding. This will be a result of the closure of the Naval Shipyard and Naval Station and the decreased number of active duty service members in the Charleston catchment area. The Lead Agent will start to develop policies which will affect the direct care and CHAMPUS health care delivery systems. The Navy will most likely start some form of capitated budgeting within the next year. In a FY-95 capitated budget, the Naval Hospital would receive a dramatically reduced budget. The Naval Hospital will seek to become a "landlord" command for the small commands being displaced by the closing of the Naval Shipyard and Naval Station. The Naval Hospital will become increasingly dependent on third party collections revenue and collecting "rent" from tenant commands to remain operational.

The Radiology Department Head feels a TPC program for Radiology will require increased staffing and equipment. There is a concern over the legal liability of returning dictated radiology reports to external health care providers. There is concern on the impact of increased

workload on the morale of department personnel. These issues are very valid and require additional research and coordination between hospital departments. These issues can be researched by a Process Action Team using Total Quality Leadership methods to provide alternative.

The Radiology Department needs to develop a business plan which is based on the hospital business plan. The Radiology Department needs to develop a mission, goals, and objectives based on the hospital mission, goals, and objectives. The Radiology Department may need to start to limit certain types of services or to increase other types of services based on a business plan analysis. The TPC program for Radiology may provide essential operational revenue for the Naval Hospital. The retiree and Air Force population in Charleston should remain constant for the next several years.

The Radiology Department must consider the types of services it will offer, the patient population, what is the demand for these services, what will be the sources of revenue, who it will offer services to, how much these services will cost, what is the optimum staffing level that both the Radiology Department and the Navy can live with, and how it will interact with external agencies. Once the Radiology Department has developed its business plan, it will need to be monitored and changed as required.

Only the Radiology Department can decide how to make a TPC program for radiology successful. The department must develop some form of staffing model to justify staffing requirements. It must also develop methods to process TPC requests and to sent diagnostic radiology results back to requesting external providers. The Radiology Department has a good opportunity to implement the TPC program for Radiology to position itself for FY-95. By implementing the TPC program for Radiology and accepting external requests for radiology procedures, the Radiology Department may be able to:

- 1. Maintain its workload as the active duty navy population decreases
- 2. Provide an alternate source of funding for a decreasing budget
- 3. Justify maintaining current staffing and services offered
- 4. Seek alternate use of CHAMPUS funds from the lead agent

Not implementing a TPC program for radiology may have the following impact:

- 1. The workload for the Radiology Department will decrease as the active duty population decreases
- 2. Funding for new programs and technologies will become increasingly difficult to obtain
- 3. Staffing levels will be cut to meet hospital downsizing objectives
- 4. CHAMPUS costs will increase as beneficiaries seek external health care providers because radiology services were eliminated due to decreased staffing and funding

The primary mission of a military hospital is to support the active duty service members. As the number of active duty service members and their dependents decrease, the primary target population will be the small remaining

percentage of active duty personnel and their dependents. The retirees and their dependents will be an increasingly important target market. A TPC program for radiology will generate very little revenue in the beginning of the program, but as the program continues the amount of revenue generated will increase.

The population in Charleston will have a choice in belonging to a Preferred Provider Organization (PPO) type network. The beneficiary will enjoy financial and access benefits by joining the PPO. The beneficiary who does not join the PPO will incur higher financial costs and limited access to the MTF. The PPO may impact on the TPC program for radiology if the beneficiaries who elect to use external providers do not have access to the MTF services.

A TPC program for Radiology will increase the workload for the Radiology Department no matter which model is used. The Radiology Department will face some increased costs in terms of consumable materials such as x-ray film, contrast media, and wear and tear on equipment. If the employees do not understand the benefits of the TPC program, the increased workload can have a negative impact on employee morale. The beneficiaries may not understand the program either and may generate some negative publicity for the Naval Hospital if the program is not properly explained and marketed.

# <u>Internal and External Constituents</u>

The Naval Hospital has an obligation to support the Radiology Department in terms of funding, staffing, equipment, and leadership. The hospital has the obligation to provide medical care to active duty service members. It also has the obligation to provide medical care to dependents and retirees on a space available basis. The hospital must meet the demands placed upon it by the Lead Agent, the HSO, BUMED, DoD Health Affairs, Responsible Line Commander, Congress and the President. The hospital must stay within its direct care budget. The beneficiary population and the media can place pressure on the hospital and its external stakeholders to make changes within the hospital health care delivery system.

The Radiology Department has an obligation to support the hospital mission and to provide ancillary support to authorized providers. The Radiology Department is obligated to properly report to higher authority and to stay within its operating budget. The department is obligated to support its employees and to provide quality health care services to its beneficiary population.

#### CHAPTER IV

#### DISCUSSION

#### Market Strategies

The expected reimbursement of \$30,000 for a fully implemented TPC program for Radiology may not justify the cost of starting the program and the stress placed on the department personnel by increasing the workload. The Radiology Department should implement a pilot study for the TPC program for Radiology. The best candidate would most likely be CAT scans. This pilot study would have the least impact on workload, equipment, and personnel, but would have a net reimbursement of \$0 due to contrast media costs. The data collected could be used to predict the workload, equipment, cost, and personnel resources required to fully implement a TPC program for Radiology.

There are some limits on the resources in terms of equipment and personnel to increase the CAT, ultrasound, and mammography workload in the Radiology Department. Personnel should be cross trained to help support these areas.

Experienced active duty radiology personnel should be trained early as possible in different technologies when

they are first reporting for duty. It will take time for a technician to become fully proficient in a technology, but this may provide two or three years of a stable technician pool. The civilian diagnostic radiologic technician positions may be able to be switched to special technology positions such as CAT or ultrasound technicians. The possibility of extending normal working hours as workload demands is a consideration.

The Radiology Department should coordinate with the Alternate Health Care Department to assist with patient health benefits education. The Public Affairs Officer will be able to help with the marketing campaign and to obtain advertising sources. Information about the program can be passed to the beneficiary population by using the military papers such as The Bowhook and the civilian newspapers such as The Post and Courier. The TPC office will be able to provide program assistance and management control reports to track the program success.

PATs should be able to recommend suggested courses of action and possible alternatives as problems occur within the program. Patient surveys and employee feedback should provide some measure of program understanding and impact.

The pilot program should be ran for at least 6 months to gather data and to identify problems. At this point, the data can be analyzed and a decision can be made to expand, maintain, or cancel the program.

The other alternative is to implement model 3 which is to accept only external provider requests for radiological procedures with TPC reimbursement potential with a reduced workload expectation. This model will cause more stress on the Radiology delivery system than the pilot program option, but will offer the maximum TPC reimbursement with the least increase in radiology workload. This model poses a greater potential for a public relations problem. If the Naval Hospital accepts external radiology requests which have TPC reimbursement potential, but rejects external radiology requests which have no TPC potential may cause a negative impression with the beneficiary population. The best example of this situation would be when the same patient presents with an external radiology request for a upper G.I study and a chest x-ray. Under this model, the patient would be scheduled for the upper G.I. but would be instructed the Naval Hospital would not perform the chest xray and the patient would have to seek a CHAMPUS source for the chest x-ray. This model would require very careful staff training and patient education with a on-going program of marketing patient benefits. The calculated TPC reimbursement for model one (100% recapture of the CHAMPUS radiology services) is contained in Appendix (I). chart contains the TPC calculated cost of service, the estimated CHAMPUS allowable, the number of potential TPC examinations, the historical number of beneficiaries with a

TPP, the potential TPC collections if all TPPs paid the cost of service and the potential TPC if the TPPs paid close to the CHAMPUS allowable. Appendix (J) contains the same information, but assumes the Radiology Department will reclaim only 50% of the radiology CHAMPUS demand.

Table 19 contains the breakdown of the number of radiology CHAMPUS studies performed, the total amount billed and the total amount allowed. This table represents most of the possible increase in workload for the Radiology Department if a TPC program for Radiology was implemented.

Table 19

MANAGED CARE QUERY APPLICATION (MCQA)
SUMMARY OF CHAMPUS RADIOLOGICAL PROCEDURES NH CHARLESTON CATCHMENT AREA OUTPATIENT ONLY
FY-93 DATA 01 OCT 92 TO 30 SEP 93

EXAM	NUMBER EXAMS PERFORMED	TOTAL AMOUNT BILLED	AVERAGE AMOUNT BILLED	TOTAL AMOUNT ALLOWED	AVERAGE AMOUNT ALLOWED
GI TRACT	681	\$37,483.00	\$55.04	\$27,281.00	\$40.06
THALLIUM	95	\$13,615.00	\$143.32	\$12,580.00	\$132.42
NUC MED	413	\$41,679.00	\$100.92	\$30,450.00	\$73.73
CT	1,518	\$230,878.20	\$152.09	\$167,387.00	\$110.27
MAMMOGRAPHY	754	\$25,222.00	\$33.45	\$23,440.00	\$31.09
ULTRASOUND	1,491	\$136,242.00	\$91.38	\$89,178.00	\$59.81
MRI	376	\$276,275.00	\$734.77	\$136,974.00	\$364.29
GENERAL X-RAY	27,895	\$2,580,582.00	\$92.51	\$2,287,685.00	\$82.01
CARDIAC/ARTERIAL/VENOUS	73	\$13,370.00	\$183.15	\$11,524.00	\$157.86
RADIATION THERAPY	1,763	\$240,903.00	\$136.64	\$164,043.00	\$93.05
				===============	
	35,059	\$3,596,249.20		\$2,950,542.00	

#### Marketing Action Plan

The Radiology Department should consider all its options and select a TPC program which is consistent with its mission. This process would be good for a PAT. The PAT should be composed of members of Radiology, TPC, comptroller, Alternate Health Care, Market Analysis, direct patient care, and Management Information Department. The

Radiology Department should coordinate developing its business plan with the hospital business plan.

The PAT team should have its recommendations prepared by the start of FY-95. By this time the hospital business plan should be fairly well developed and the Radiology Department will have an indication of the radiological services required by the hospital and the beneficiary population.

The administrative start up costs of a TPC program for Radiology should be minimal since the TPC office is well established for outpatient, inpatient and pharmacy TPC. The Radiology Department will incur some start up costs in additional time, contrast media and x-ray film. As long as current radiology staffing and equipment is used, this cost should be minimal. If it is determined additional personnel are required to be hired for a TPC program for Radiology, then the program will not be cost effective. The alternatives are listed in order of preference with the TPC program is seeking a net gain on reimbursement.

Model 4 - The pilot program accepting only external CAT scan requests with current staffing and equipment; should generate a net gain on reimbursement of \$0.

Model 3 - Performing only the radiological exams with TPC reimbursement potential with current staffing and equipment; should generate a net gain on reimbursement of \$30,000.

Model 5 - Doing nothing with current staff and equipment; should generate no reimbursement.

Model 2 - Accepting all external civilian radiological requests with expecting only 50% response would require the hiring of one contract radiologist and possibly some additional support staff for ultrasound, CAT and mammography at a cost exceeding \$400,000. With an expected TPC reimbursement of \$30,000, this would cause a net loss on reimbursement of about \$370,000.

Model 1 - Accepting all external civilian radiological requests with expecting a 100% response would require the hiring of two contract radiologists and possibly some additional support staff for ultrasound, CAT, and mammography at a cost exceeding \$800,00. With an expected TPC reimbursement of 60,00, this would cause a net loss on reimbursement of \$740,00. The total CHAMPUS allowable for FY-93 CHAMPUS radiological studies was \$2,950,542. It is possible to seek alternate use of CHAMPUS funds to use CHAMPUS money to hire contract radiologists and additional support personnel to recapture some CHAMPUS expenditures. This is an issue which would be discussed with the Lead Agent.

#### Controls

The TPC office and the Comptroller would provide financial oversight to the TPC program for Radiology. The Radiology Department would provide management and technical oversight to the program.

This project experienced control problems in the following areas:

- o Standard Radiology manpower staffing model
- o Radiology workload reporting
- o Matching CPT codes with TPC authorized Radiology studies

There was no easily identifiable Navy manpower staffing model for Radiology. An Air Force staffing model was used, but there may be significant differences in the duties expected between Navy Radiology Personnel and Air Force Radiology Personnel. If the standard of 15,000 radiology procedures per Radiologist per year is used, then the required Radiologist staffing as it related to workload was consistently underestimated by the Air Force model. This may suggest the Air Force model was underestimating the required Radiology support staff as related to workload.

There are multiple information systems which record the Radiology workload. These systems include DMIS, CHCS, and manual accounting methods. This causes discrepancies between the reported workload, and may allow departments to artificially increase or decrease workload. A standard reporting system using one CPT code per one patient would help to eliminate variations between reporting systems and

may help to standardize the data for use in departmental planning.

The documentation authorizing the Radiology studies which could be used for TPC reimbursement did not indicate the CPT code for each study. This may leave room for variation in billing the TPP and may cause delays in collections. It would be helpful if the authorizing documentation would also include the corresponding CPT codes.

#### CHAPTER V

#### CONCLUSION AND RECOMMENDATIONS

With a expected reimbursement of only \$30,000, the TPC program for Radiology may not be cost effective to implement under the way the program is currently structured. The NH Charleston may be required to implement some form of TPC program for Radiology to provide needed operational funding. The TPC program for Radiology has many issues which need to be looked at prior to implementation.

It is very important for the Radiology Department to "buy into" a TPC program for Radiology. If the Radiology Department does not feel the program will beneficial to them, it is unlikely the program will be successful. The Radiology Department should coordinate a PAT to study the issues and make recommendations. It is my recommendation to implement a pilot study using external provider requests for CAT scans. If the program is found to be feasible, it should be expanded as much as staffing and equipment allow. Asking the Lead Agent for alternate use of CHAMPUS funds should be explored to provide additional staffing.

According to the Naval Hospital Legal Office, there is little legal liability as long as the Naval Hospital makes a responsible effort to send a dedicated report back to the referring provider. The logistics of returning dictated external provider reports is a matter of developing a provider database and mailing label generation program. There are many off the shelf software packages to perform these functions. There may be greater legal liability when a well meaning internal provider takes an external provider request and rewrites it with the internal provider's signature. This internal provider now becomes legally responsible to follow up the patient.

Appendix (K) contains a sample TPC form which could be modified to meet the needs of the Radiology Department.

DoD may wish to revise the TPC program for Radiology to include all the radiological procedures and not just the high cost procedures. A further analysis should be conducted to see if an increased volume of TPC procedures would increase the TPC reimbursement rate.

A TPC program for Radiology provides a possible source of operational revenue for the hospital, but may also have some negative impact in terms of staffing and equipment usage.

### REFERENCES

- Air Force Manpower Staffing Document 5202 (1987). Radiology. Washington, DC: Headquarters US Air Force.
- Buchnowski, R. P. 1991. A study of the five phase recovery process as a method of maximizing reimbursements under the Third Party Collection Program. Waco, TX: Baylor University Graduate Management Project.
- Bureau of Medicine and Surgery Instruction Number 7000.7 (1993). Third Party Collection Program. Washington, DC: Chief Bureau of Medicine and Surgery.
- Defense Medical Information System (1993).
- Department of Defense Instruction Number 6010.15 (1993).

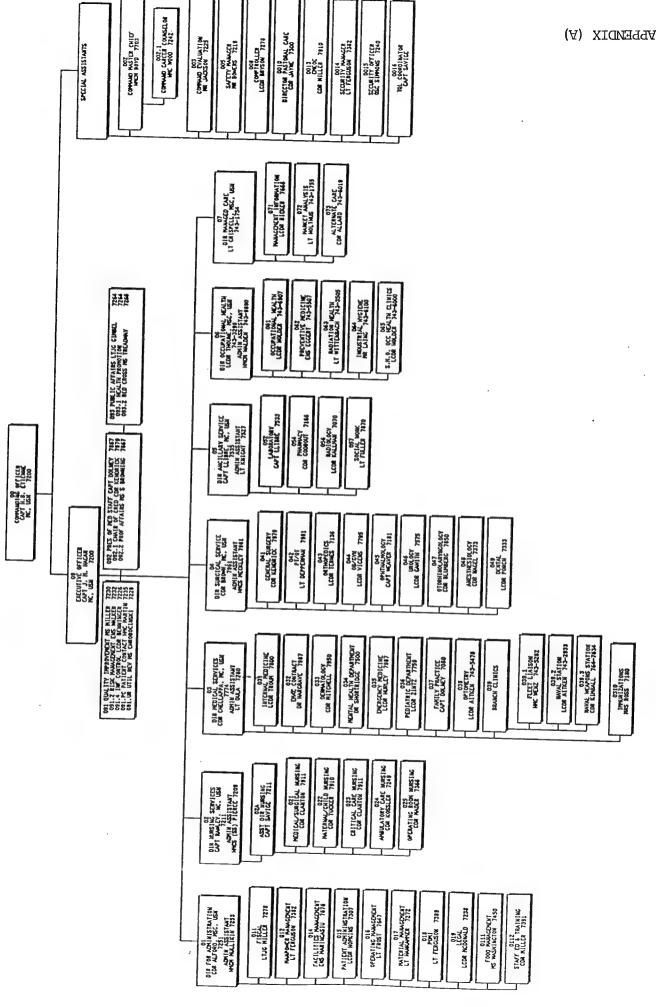
  <u>Third Party Collection Program</u>. Washington, DC: Office of the Assistant Secretary of Defense for Health Affairs.
- Mobile Technology Inc (1993). <u>Marketshare Report</u>. Charleston, SC.
- Naval Hospital Charleston (1994). <u>CHAMPUS Maximum Allowable</u>
  <u>Charges</u>. Charleston, SC: Catchment Area Management
  Database System.
- Naval Hospital Charleston (1994). <u>Contract Analysis</u>
  <u>Worksheet</u>. Charleston, SC: Materials Management
  Department.
- Naval Hospital Charleston (1992). Operational Audit Data Sheet. Charleston, SC: Manpower Management Department.
- Naval Hospital Charleston (1993). <u>Performance Indicators</u>. Charleston, SC: Radiology Department.
- Naval Hospital Charleston (1994). Radiology workload. Charleston, SC: Radiology Department.
- Naval Hospital Charleston (1994). Strategic Plan. Charleston, SC: Executive Steering Committee.
- Naval Hospital Charleston (1993). Supplemental Medicine Database System. Charleston, SC: Alternate Healthcare Department.
- Navy Staffing Standard MED18.001 (1980). <u>Radiology Services</u> at <u>Teaching Medical Centers</u>. Washington, DC: Office of the Chief of Naval Operations.

- Olsen, R. W. 1991. <u>Development of a third party collections</u>

  <u>and accountability system for Department of the Army</u>

  <u>Medical Department Activities</u>. Waco, Tx: Baylor

  University Graduate Management Project.
- Sunshine, Bansal. 1992. Operational, professional, and business characteristics of radiology groups in the United States. Radiology 183: 535-540.
- Sunshine, Bansal. 1992. Hospital and office practices of radiology groups. Radiology 183: 729-736.



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NAVAL HOSPITAL CHARLESTON CATCHMENT AREA DEMOGRAPHIC DATA

Date Prepared: 05 February 1994

ACTUAL DATA FOR 30 SEPTEMBER 1992

	Dependents	S	Dependents	Dependents	Total	Grand Total
343	526	11 11 10		489	ii Ii	4.60
Air Force 4,115	6,337	3,494	5,068	639	19,653	19.81
rps	374	327	502	109	1,679	1.69
21,440	33,078	6,257	10,291	1,139	72,265	72.84
Other 239	383	176	214	39	1,051	1.06

Data Source:

Distribution of Military Population by Type for Charleston SC as of September 30 1992 - - Provided by Defense Manpower Data Center

ACTUAL DATA FOR 30 SEPTEMBER 1993

	FY 92 to FY 93		otal Change	H					1.36	100.00 (9,325)
		Percer	<b>Grand Total</b>			8		9		100
		Service	Total	71	4,422	20,762	1,717	61,765	1,221	89,887
TEMBER 1993		Survivor's	Dependents		507	703	117	1,225	47	2,599
ACTUAL DATA FOR 30 SEPTEMBER 1993		Retired	Dependents		1,887	5,165	499	10,814	219	18,584
CTUAL DAT		Retired	Sponsors		1,519	3,728	357	6,785	166	12,555
×		Active Duty	Dependents	10 10 10 10 10 10 10 10 10 10 10 10 10 1	266	6,742	347	26,626	474	34,455
		Active Duty	Sponsors		243	4,424	397	16,315	315	21,694
		Service	Affillation		Army	Air Force	Marine Corps	Navy	Other	Totals

Data Source:

Distribution of Military Population by Type for Charleston SC as of September 30 1993 -- Provided by Defense Manpower Data Center

PROJECTED DATA FOR FISCAL YEAR 1996 (POST BRAC)

FY 92 to FY 96	Amount	Change		2,407	885	261	(41,413)	145		(37,608)
	<b>*</b>	==	II	2	_	2	80	4	i	0
	. Percent c	Grand Total	11 11 11 11 11 11 11 11 11 11 11 11 11	11.3	33.5	3.15	50.0	1.9		100.00
	Service	Total		6,971	20,645	1,940	30,852	1,196		61,604
		Medicare		862	1,302	124	2,650	62		2,000
	Retired	Dependents		1,800	5,108	592	9,940	219		17,659
	Retired	Sponsors		1,450	3,653	334	6,393	170		12,000
	Active Duty	Dependents		1,511	6,582	535	6,869	448		15,945
	Active Duty	Sponsors		1,348	4,000	355	5,000	297		11,000
	Service	Affiliation		Army	Air Force	Marine Corps	Navy	Other		Totals

Data Source: DMIS/RAPS

# NAVAL HOSPITAL CHARLESTON CATCHMENT AREA DEMOGRAPHIC DATA

Date Prepared: 03 March 1994

ACTUAL DATA FOR 01 FEBRUARY 1994

	65+ years	1 259 6 6,748 0 351 39 26,622 1 473	47 34,453 0% 100%	65+ years	661 2,310 891 5,848 103 592 1,605 11,913	3,322 20,917 16% 100%		
	34-64 years	3,357	4,429	34 - 64 years		9,733		
ty sts	24 – 33 years	32 49 1,406 926 71 25 5,218 3,357 99 72	6,826	24-33 years	I	327		
Active Duty Dependents		738 738 2,968 54	3,874 11% Retired	စ် က တ		3,916		
40	14-16 years	19 450 14 1,527	2,028	14-16 years	134 345 43 43 939	1,479		
		2,397 2,397 98 9,753	12,513 36%	4-13 years	204 455 66 1,284	2,021		
-	Less than 4 years	28 825 62 3,760	4,736	Less than 4 years		0 %		
	Total	222 4,424 400 16,147	100%	Total	1,469 3,713 337 6,722 163	12,404	Total	4,260 20,733 1,680 61,404 1,198
		00000	%0	65+ years	607 863 99 1,627 59	3,255 26%	65+ years	1,269 1,760 202 3,271
	3464 years	1,330 1,330 4,171 92	5,700 27%	34-64 65+ years years	838 2,830 232 5,025 103	9,028	34-64 years	1,889 8,127 548 17,942.
>			10,664	24-33 years		2.7 %	24-33 years	148 3,719 194 13,625 246
Active Duty Sponsors	17-23 years	85 55 881 2,212 266 108 3,831 8,145 72 144	5,135 24% Retired	Spansors 17-23 years	00	6 0% Total	Population 17-23 years	459 148 2,635 3,719 447 194 9,223 13,625
4 0)	14-16 years	00000	%0	14-16 years	00000	0%	14-16 years	153 795 57 2,466 36
			0%0	4-13 years		0 %		301 2,852 164 11,037
-	Less than 4 years	00	0 %	Less than 4-13 4 years years	00000	0%		41 845 68 3,840 63
	Service Affiliation	orce orce	Totals % of Total	Service Affillation	ا بو	Totals % of Total		Army Air Force Marine Corps Navy Other

NAVAL HOSPITAL CHARLESTON CATCHMENT AREA DEMOGRAPHIC DATA

Date Prepared: 03 March 1994

PROJECTED DATA FOR FISCAL YEAR 1996 (POST BRAC)

			1	Active Duty	>				_		⋖	Active Duty				
			0)	Sponsors								Dependents	ফ			
80 60 60	Less	4-13	14-16	17-03	24123	79-76	i d		Less	5		. 1			,	
Affiliation	4 years	years	years	years		years	years	Total	4 years	years	years	17 23 years	24-33 years	34-64 years	65+ years	Total
Army	0	0	: 	====== 522	334	492	)         	1.348	163 566		111	100	787	187 286	II (4	
Air Force	0	0	0	797	2.000	1.203	0	4.000	808 208	238	730	7 20	2 6	0 0	<b>O</b> (	- C
Marine Corps		0	0	236	96	23	0	355	200	140	5 5	2 6	, c	200	0 0	מסים
Navy		0	0	1,186	2,522	1.292	0	5.000	970	2.516	39.4	766	346	0 4	<b>9</b>	000
Other	0	0	0	69	139	68	0	297	28	159	17	51	0 0	88	<u>-</u>	448
Totals	0	0	0	2.811	5.091	3.098	0	11.000	080.6	5 729	980	1 853	304.8	0 4 6 0	6	1 1 0
% of Total	%0	%0	%	26%	46%	28%		100%	13%	36%	%9	12%	19%	14%	%0	100%
			_ Ш.0	Retired							Œ	Retired				
	u u		,	Siosiodo					-			Dependents	Ø			
Service	than	4-13	14-16	17-23	24-33	34-64	65+		than	4-13	14-16	1723	24-33	34-64	ii H	
Affiliation	4 years	years	years	years	years		years	Totai	4 years	years		years		years	years	Total
		0		4	27	1,073	777 1,881	1,881	12	197	129	326	11 65 11 65 11 11 11 11 11 11 11 11 11 11 11 11 11		11 12 12 12 12 12 12 12 12 12 12 12 12 1	11 11 10 0
Air Force	0	0	0	-	22	3,280	1,000	4,304	9	448	340	000	8 2	0 0 0	2 4 5	יי אין מין מין
Marine Corps	0	0	0	-	9	273	116	396	7	73	48	109	; ;	9 6	4.	, , ,
Navy	0	0	0	-	79	5,770	1,868	7,718	76	1,214	888	2.291	183	5.096	- K	11 261
Other	0	0	0	O	-	127	73	201	61	12	18	40	OI.	115	. 6	250
Totals	0	0	0	7	135	10.523	3.835	14.500	115	1 944	1 400	2 787	1 to			1 0
% of Total	%0	%0	%	%0	1%	73%		100%	%	10%	%/	19%	% 5 %	47%	3,200 16%	100%
سر																
			۵.	Total Population												
	Less			-												
Service	than	4-13	14-16	17-23	24-33	34-64	<b>65</b> +									
ATIIIation	4 years years	years	years	years	o I			Total								
Army	175		240		587	2.741	1.421	6.972								
Air Force	824	2,786	779	2,518	3,474	8,381		20.645								
Marine Corps	102	222	69	469	221	627		1,940								
Navy	1,046	3,730	1,282	4,244	4,130	13,024		30,852								
Other	09	171	32	160	236	399	135	1,196								
Totals	2,207	7,672	2,405	8,436	8,648	25.172	7.065	61.605								
% of Total	4%	12%	%	14%	14%	41%		100%								

### NAVAL HOSPITAL CHARLESTON 26-JAN-94

### OUTPATIENT TPCP SUMMARY BY CLINIC (27-APR-93 to 30-SEP-93)

The control of the co

MEPRS	MEPRS Description	# Billed	Billed	χ.	Collected	7.	Write-Off	x	Receivable	z
BAAA	INTERNAL MEDICINE CLINIC NH	431	\$41,653,15	7.3	\$15,949,91	11.1	\$10.116.09	A 8	<b>\$15.892.15</b>	5.7
BAKA	NEUROLOGY CLINIC NH DERMATOLOGY CLINIC NH	27	\$2,700.00	0.5		0.9	\$570.00	0.0	\$900 00°	0.7
BAPA	DERMATOLOGY CLINIC NH	236	\$23,600.00	4.2		4.4	\$6.944.32	4 7	\$10.590.00	3.8
BBAA	GENERAL SURGERY CLINIC NH	342	\$34-100.00	6.0		5.6	\$9.601.04	A 5	\$16.509.00	.6.0
BBDA	OPTHALMOLOGY CLINIC NH	300	\$30,000.00	5.3	\$11,125.99	7.7	\$8,474.01	5.7	\$10,500.00	3.8
BBFA	OTORHINOLARYNGOLOGY CLINIC NH	120	\$12,000.00	2.1	\$4,884.25	3.4	\$2,515.75			1.7
BBIA	OTORHINOLARYNGOLOGY CLINIC NH UROLOGY CLINIC NH	525	\$22,057.00	3.9	\$6,344.06	4.4	\$6,750.94	4.6	\$8,962.00	3.2
BCBA	OB/GYN CLINIC NH PEDIATRIC CLINIC NH	111	\$11,049.00	1.9	\$4,089.42	2.8	\$3,500.58	2.4	\$3,459.00	1.2
BDAA	PEDIATRIC CLINIC NH	21	\$2,100.00	0.4	\$749.00	0.5		0.5	\$600.00	0.2
BEAA	ORTHOPEDIC CLINIC NH	118	£11 740 00	2 1	\$4,011.44	2.8		1.6	\$5,354,00	1.9
BFAA	PSYCHIATRY CLINIC NH	92	\$8,692.60	1.5	\$1,653.00	1.1	\$4,517.00	3.1	\$2,592.60	0.9
BFBA	PSYCHIATRY CLINIC NH PSYCHOLOGY/PSYCHIATRY SUBSTANCE ABUSE CLINIC NH FAMILY PRACTICE CLINIC NH	. 66	\$6,290.00	1.1	\$1,169.00	0.8	\$2,727.00	1.8	\$2,394.00	0.9
BFFA	SUBSTANCE ABUSE CLINIC NH	9	\$900.00	0.2	\$182.50	0.1		0.0	\$700.00	0.3
BGAA	FAMILY PRACTICE CLINIC NH	806	\$80,368.00	14.2	\$22,337.98	15.5		16.2	\$34,129.75	12.3
ROUT	FAMILY PRACTICE NAVAL WEAPON S	109	\$10,440.00	1.8	\$3,112.30	2.2	\$3,987.70	2.7	\$3,340.00	1.2
BHAE	AMBULATORY CARE CLINIC NH	563	\$56,300.00	9.9	\$14,092.71		\$11,159.94		\$31,300.00	11.3
BHAZ	PRIMARY CARE CLINIC NAVAL WEAP	2	\$190.00	0.0	\$76.00	0.1	\$19.00	0.0	\$95.00	0.0
BHCY	OPTOMETRY NAVAL STATION	2	\$200.00	0.0	\$129.25		\$70.75	0.0	\$0.00	0.0
BHHA	AMBULATORY CARE CLINIC NH PRIMARY CARE CLINIC NAVAL WEAP OPTOMETRY NAVAL STATION NAVCARE NH	1,337	\$131,943.00	23.2	\$22,875.45		\$37,667.55	25.4	\$71,500.00	25.8
BIAA	EMERGENCY MEDICAL CLINIC NH	247	\$25,545.00	4.5	\$8,048.00		. \$9.797.00	6.6	\$7,900.00	2.9
CAAA	ORAL SURGERY NH	33	\$3,116.00	0.5	\$452.25		\$547.75	0.4	\$2,116,00	0.8
DAAA	PHARMACY NH	81	\$10,206.00	1.8			\$117.85	0.1	\$9,558.00	3.5
PAAA	PURCHASED HEALTH NH	82	\$42.263.64	7.4			\$1.808.37			12.3
PAAB	EMERGENCY MEDICAL CLINIC NH ORAL SURGERY NH PHARMACY NH PURCHASED HEALTH NH WORKER'S COMP	1	\$100.00	0.0	\$100.00	0.1			\$0.00	0.0
		5,358	\$567,562.39		\$144,102.31		\$148.046.97		\$2 <b>7</b> 7,040.76	

### OUTFAILER FOR SUMMARY BY CLIMIC (01-OCT-93 to 25-FEB-94)

	MEPRS DESCRIPTION	#	BILLED	χ	# #	COLLECTED	χ	**	WRITE-OFFS	7.	RECEIVABLE	ì
BAKA	THIENMAL DEDICINE CLINIC NH	37	9 \$35,534,75	4.		9 \$20,779.64						
BAKA	NEUROLOGY CLINIC NH DERMATOLOGY CLINIC NH	2.	2 \$2,183.00	0.		0 \$1.669.85			\$13,415.96		\$17,409.30	3
BAPA	DERMATOLOGY CLINIC NH	39:	5 \$39,161.00		_	3 \$16.095.01	0.6					0.3
BBAA	GENERAL SURGERY CLINIC NH	51				4 \$24,727.55	5.6		\$12,252.99	4.3	\$21,463.00	4.5
BBDA	OPTHALMOLOGY CLINIC NH	296	\$28,700.00			9 \$14,440.06	8.6	904		7.0	\$22,806.60	4.1
BBFA	OTORHINOLARYNGOLOGY CLINIC NH	17	2 417 174 00				5.0	503		3.4	\$15,042.00	3.3
BBIA	UROLOGY CLINIC NH  OB/GYN CLINIC NH  PEDIATRIC CLINIC NH  ORTHOPEDIC CLINIC NH  PSYCHIATRY CLINIC NH	263	\$25,901.15	3.			2.8	307		2.1	\$7.522.00	1.:
BCBA	OB/GYN CLINIC NH	194	119.073.00	2.	5 2	4 \$10.090.75	3.5	465		3.9	\$13.593.00	5.5
BDAA	PEDIATRIC CLINIC NH	34	00.210.72	0.	_		0.7	232	\$1,912.64	0.7	\$18,721.00	4.6
BEAA	ORTHOPEDIC CLINIC NH	160	\$15.804.00	2.			0.2	49	\$746.40	0.3	\$2,359.00	0.5
BFAA	. O. OHITHIR! CEIRIC MH	42	\$3,846.15	0.5			2.7	266	\$3,737.60	1.3	\$9.748.00	2.:
BEBA	PSVCHOLOCY (DOVOUTATELY				-		0.4	90	\$3,007.07	1.1	\$2,294.00	0.5
BFDA	MENTAL HEALTH NH	7	\$247.16	0.0		\$2,245.90	8.0	189	\$4.832.10	1.7	\$5,414.00	1.:
BFFA	MENTAL HEALTH NH SUBSTANCE ABUSE CLINIC NH FAMILY PRACTICE CLINIC NH	1.6	\$1.584 AA	0.1				5	\$168.15	0.1	\$95.00	0.5
			\$92,234.60	12.0		\$811.60	0.3	35	\$778.40	0.3	\$694.00	5.1
BGAZ	FAMILY PRACTICE NAVAL WEAPON S	405		4.8		\$33.900.58		1,559	\$33,622.04	11.9	\$59,140.93	:2.5
BHAL	AMBULATORY CARE CLIMIC					\$10,726.05	3.7	654			\$15,168.55	3.1
BHAZ	PRIMARY CARE CLINIC NAVAL WEAF	3	\$210 A5	0.0		\$25;919.35	9.0		\$24,955.65		\$73,026.00	15.4
BHCA	OPTOMETRY CARE CLINIC NAVAL WEAP OPTOMETRY CLINIC NH OPTOMETRY NAVAL STATION NAVCARE NH NAVCARE NH EMERGENCY MEDICAL CLINIC NU	1	\$77.40	0.0	-	\$54.87	0.0	4	\$18.28	0.0	\$241.30	1.:
BHCY	OPTOMETRY NAVAL STATION	,	\$477.00	0.0				1	\$0.00	0.0	\$77.30	1.6
BHHA	NAVCARE NH	978	491 005 00	0.1	_	\$77.00	0.0	7	\$0.00	0.0	\$497.00	
BHHE	NAVCARE NH	1.597	\$100 030 3A	10.7	175	\$42,342.95			\$69,411.69	24.5	\$42,201.15	£ . =
BIAA	EMERGENCY MEDICAL CLINIC NH	417	\$407,720.20	14.3		144.001400011	7.9 2	2,190	\$21,200.64		\$64,804.15	. 3
CAAA	ORAL SURGERY NH	27	45 470 00	5.3			3.4	580	\$8.692.98		\$30,068.30	1.3
DAAA	PHARMACY NH	135	\$10 A10 77	0.3		\$1,235.35	0.4	54	\$1,451.65	0.5	\$2,108.30	: ; :
FCGA	CIVILIAN HUMANITARIAN	5	4/57 00	2.5	46	\$5.052.60	1.7	197	\$5,254.40	1.9	\$18,199.92	3.1
PAAA'	PURCHASED HEALTH NH	113	\$733.00	0.1	7.0			5	\$0.00	0.0	\$453.00	: : :
PAAB	WORKER'S COMP	26	\$2.554 AS	4.5		\$24,405.62	8.4	192	\$17,174.65	6.1	\$28,718.52	=
PAAC	CHRONIC PAIN CLINIC	. 4	\$27JJ4.00	0.3		\$1.858.00	0.6		\$196.00		\$400.30	:::
	ORAL SURGERY NH PHARMACY NH CIVILIAN HUMANITARIAN PURCHASED HEALTH NH HORKER'S COMP CHRONIC PAIN CLINIC			0.1		\$100.00	0.0	4	\$0.00	0.0	\$297.10	111
TOTALS	•	081.3				\$288,882.26	13 =	.518 :	283,705.72	4		• • •

### THIRD PARTY COLLECTIONS: SUMMARY REPORT 2nd QTR-FY 93

NAVAL MTF8	CUMULATIVE BILLINGS	FY 93 COLLECTIONS	FY 91/92 COLLECTIONS	TOTAL COLLECTIONS
BEAUFORT	403,275.30	92,442.52	64,674.74	147,017.26
BREMERTON	465,377.00	71,579.68	62,419.89	133,999.55
CAMP LEJEUNE	553,410.00	148,503.47	157.096.40	305,599.87
CAMP PENDLETON	334,373.00	34,758.27	82,796.88	117,554.95
* CHARLESTON	2,270,759.70	₩ 807,495.50	253,973.48	1,061,468.98
CHERRY POINT	80,416.00	28,329.36	12,825.75	41,155.11
CORPUS CHRISTI	175,031.80	49,705.08	65,690.47	115,395.55
GREAT LAKES!	522,716.00	85,934,15	- 125,694.48	211,628.63
GROTON	351,910.80	83,038.26	57,801.00	150,840.28
GUAM	6,951.00	0.00	1,095.70	1,095.70
JACKSONVILLE	1,112,514,45	281,290.42	228,678.00	509,968.42
KEFLAVIK	8,541.00	6,570.00	0.00	6,570.00
LEMOORE	12,658.00	1,672,91	11,052.50	12,725.41
LONGBEACH	85,509.00	23,069.87	21,859.12	44,928.99
MILLINGTON	153,797.00	55,535.54	23,170,82	73,706.36
N.N.M.C.	4,100,060.00	978,206.07	977,146.28	1.955,352.35
NEWPORT	31,738.00	0.00	0.00	
OAKLAND	1,601,206.25	134,357.79	373,545.00	0.00
OKINAWA	0.00	0.00	0.00	507,802.79
ORLANDO	790,341.80	231,011.50	125,990.08	0.00 357,001.58
PAX RIVER	. 24,666.00	6,358.18	21,518.78	27,876.96
PENSACOLA	1,225,859.00	231,473.06	161,326.44	392,799.50
PORTSMOUTH	3,754,824.75	655,283.20	513,974.40	1,169,237.60
SAN DIEGO	2,950,689.00	627,034.83	749,772.40	1,376,807.23
TWENTY NINE HALMS	24,337.00	5,083.74	12,170.05	17,253.79
TOTALS	\$21,051,061.85	\$4,648,712.38	\$4,094,174.46	\$8,742,886.84

### RADIOLOGY WORKLOAD

	1993												7 0 0				
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NON	DEC	JAN	FEB	MAR	APR	
CT	192	212	204	197	204	239	191	211	167	222	202	187	187	214	216	207	
MRI	7.8	111	105	89	118	146	119	103	101	94	120	92	09	111	97	106	
ULTRASOUND	281	346	326	345	347	339	303	402	359	327	387	384	507	519	608	559	1
IVP/CYSTO/VCUG	31	51	35	33	21	28	70	75	72	102	76	5.9	42	50	53	71	
NUCMED	81	98	81	83	97	106	83	81	70	81	7.8	61	99	82	7.2	71	
маммо	105	174	163	178	206	181	175	172	128	167	246	221	261	247	292	241	
FLUORO	83	128	149	135	117	123	116	119	100	95	94	72	16	77	136	130	
PLAIN FILMS	3153	2989	2918	3189	2693	2535	2177	2345	2452	2478	2378	2396	3595	3228	2865	2361	
PORTABLES	328	@45	324	326	230	384	171	176	184	281	372	207	299	237	29	1 0	
UROLOGY	090	090	090	090	090	090	090	090	960	090	09	50	54	65	75	68	
CLINICS									00100	685	728	701	508	746	693	588	, .
TOTAL	4392	4214	4365	4635	4039	4141	3465	3744	4393	4592	4741	4430	5655	5593	5402	4638	
																	•

### RADIOLOGY WORKLOAD

	1992 AUG	SEP	OCT	NOV	DEC	1993 JAN	FEB	MAR	APR	MAY	NDS	JUL	AUG	SEP	OCT	NOV	DEC
$^{ m CI}$	99T	167	172	203	176	192	212	204	197	204	239	191	211	167	222	202	
MRI	63	49	64	18	84	78	111	105	89	118	146	119	103	101	94	120	
ULTRASOUND	319	349	344	373	285	281	346	326	345	347	339	303	402	359	327	387	
IVP/CYSTO/VCUG	89	63	32	36	33	31	51	35	33	21	28	70	75	72	102	92	
NUCMED	87	06	80	66 !	84	81	98	81	83	97	106	83	81	70	81	78	
MAMMO	170	140	132	174	100	105	174	163	178	206	181	175	172	128	167	246	
FLUORO	105	118	132	100	16	83	128	149	135	117	123	116	119	100	95	94	
PLAIN FILMS	2587	2770	2575	2933	2357	3153	2989	2918	3189	2693	2535	2177	2345	2452	2478	2378	
PORTABLES	@300	@300	295	@300	245	328	@45	324	326	230	384	171	176	184	281	372	
UROLOGY	090	090	09®	090	090	090	090	090	090	090	090	090	090	090	090	09	
CLINICS														@700	685	728	
TOTAL	3925	4106	3886	4359	3500	4392	4214	4365	4635	4039	4141	3465	3744	4393	4592	4741	

SUMMARY OF RADIOLOGICAL PROCEDURES FY 93 DATA 01 OCT 92 TO 30 SEP 93

**OUTPATIENT ONLY** 

NOTE: THIS DATA REPRESENTS ALL OUTPATIENT RADIOLOGICAL PROCEDURES REPORTED TO DATE FOR FY 93. ADDITIONAL PROCEDURES FOR THIS FY MAY NOT HAVE BEEN REPORTED YET.

## NUMBER OF EXAMS PERFORMED FY 93

EXAM GI TRACT THALLIUM NUC MED CT MAMMOGRAPHY ULTRASOUND	CHAMPUS DATABASE  681 95 413 1,518 754 1,491	SUPPLEMNT MEDICINE DATABASE	SUPPLEMNT INPATIENT & MEDICINE OUTPATIENT SATABASE RADIOLOGY  2 1,380 2 N/A 32 1,044 19 2,364 479 1,884 164 6,000	NAX	TOTAL EXAMS 2,069 97 1,489 3,901 5,154 7,655
GENERAL X-RAY CARDIAC/ARTERIAL/VENOUS RADIATION THERAPY	27,895 73 1,763 ========	27 58 67 ===================================	44,448 0 0 ================================	2,479 0 0 ======= 4,516	74,849 131 1,830 ========

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CPT	PROCEDURE  CISTERNOGRAPHY FOREIGN OBJ EYE MANDIBLE < 4 VW MANDIBLE >= 4 VW MASTOIDS >= 3 VIEWS FACIAL < 3 VWS FACIAL >= 3 VWS NASAL  OPTIC FORAMINA >= 4 VWS SINUSES, PARANASAL < 3 VW SINUSES, PARANASAL < 3 VW SINUSES >= 4 VWS SELLA TURCICA SKULL < 4 VW SKULL >= 4 VWS TEETH, SINGLE VW TEETH, FULL MOUTH TMJ BILAT ARTHROGRAPHY TMJ CEPHALOGRAM ORTHOPANTOGRAM NECK, SOFT TISSUE PHARYNX SIALOGRAPHY CHEST PA CHEST, TWO VIEWS CHEST, TWO VIEWS CHEST, TWO VIEWS CHEST, AP, LAT, OBLIQUE CHEST, 2 VWS WITH FLUOROSCOPY CHEST WFLUOROSCOPY CHEST WFLUOROSCOPY CHEST SPECIAL VW CHEST, SPECIAL VW RIBS, UNILAT 2 VW RIBS, UNILAT 2 VW RIBS, UNILAT 2 WW RIBS, BILAT 3 VW CSPINE AP & LAT SPINE, SURVEY STUDY AP & LAT SPINE AP & LAT C-SPINE AP & LAT C-SPINE AP & LAT T-SPINE AP LAT/OBLIQUE, FLEXION T-SPINE AP/LAT/OBLIQUE/BENDING LUMBOSACRAL BENDING >= 4 VW PELVIS AP PELVIS >= 3 VW	NUMBER OF	TOTAL		TOTAL	
CODE	PROCEDURE	SERVICES	AMOUNT BILLED	AVG AMT	AMOUNT	AVG AMT
70015	CISTERNOGRAPHY	1	157 00	BILLED	ALLOWED	ALLOWED
70030	FOREIGN OBJ EYE	4	390.00	97.50	248 00	58.00 62.00
70100	MANDIBLE < 4 VW	7	70.00	10.00	70.00	10.00
70110	MANDIBLE >= 4 VW	15	380.00	25.33	222.00	14.80
70130	MASTOIDS >= 3 VIEWS	3	65.00	21.67	53.00	17.67
70140	FACIAL < 3 VWS	5	235.00	47.00	89.00	17.80
70150	FACIAL >= 3 VWS	64	1697.00	26.52	1096.00	17.13
70160	ODTIC FORMING 4 INC	72	1074.00	14.92	758.00	10.53
70200	SINTISES DADAMASAL - 3 VW	36	844.00	23.44	641.00	17.81
70220	SINUSES >= 4 VWS	304	13556 00	22.84	5776.00	19.00
70240	SELLA TURCICA	3/3	71 00	23 67	8121.00	21.77
70250	SKULL < 4 VW	89	2709 00	30 44	1412 00	21.00 15.87
70260	SKULL >= 4 VWS	26	1087.00	41.81	625.00	24.04
70300	TEETH, SINGLE VW	1	12.00	12.00	12.00	12.00
70320	TEETH, FULL MOUTH	14	569.00	40.64	525.00	37.50
70330	TMJ BILAT	В	838.00	104.75	344.00	43.00
70332	ARTHROGRAPHY TMJ	5	300.00	60.00	246.00	49.20
70350	ODTWODANTOCDAM	1	85.00	85.00	30.00	30.00
70355	NECK COET TICCHE	19	923.00	48.58	617.00	32.47
70370	PHARYNX	11	1575 00	10.28	608.00	10.13
70390	SIALOGRAPHY	1	60.00	60.00	40.00	19.00 40.00
71010	CHEST PA	1281	28292.00	22.09	14579.00	11.38
71020	CHEST, TWO VIEWS	3870	87542.00	22,62	57426.00	14.84
71021	CHEST APICAL LORDOTIC	5	152.00	25.33	114.00	19.00
71022	CHEST, AP, LAT, OBLIQUE	4	84.00	21.00	67.00	16.75
71030	CHEST >= 4 VW	6	187.00	31.17	118.00	19.67
71023	CHEST, 2 VWS WITH FLUOROSCOPY	1	47.00	47.00	20.00	20.00
71035	CHEST W FLOOROSCOPI	3	91.00	30.33	69.00	23.00
71036	INTRATHORACIC LESION NEEDLE BI	1	29.00	15.86	72.00	10.29
71060	BRONCHOGRAPHY BILAT	2	240 00	120 00	29.00	29.00 55.50
71100	RIBS, UNILAT 2 VW	55	1929.00	35 07	840 00	15.27
71101	RIBS UNLIAT >= 3 VW	40	802.00	20.05	678.00	16.95
71110	RIBS, BILAT 3 VW	4	57.00	14.25	57.00	14.25
71111	RIBS, BILAT >=4 VW	2	84.00	42.00	46.00	23.00
71120	STERNUM 2 VW	20	536.00	26.80	317.00	15.85
72010	STERNOCLAVICULAR JOINT >= 3 VW	2	99.00	49.50	55.00	27.50
72010	COINE CINCIP IN	3	326.00	108.67	148.00	49.33
72040	C-SPINE AP & LAT	215	6710 00	40.16	285.00	15.00
72050	C-SPINE >= 4 VW	364	9497.00	26 09	7021 00	17.26 19.29
72052	C-SPINE AP, LAT, OBLIQUE, FLEXION	92	3238.00	35.20	2498.00	27.15
72069	T-SPINE STANDING	7	309.00	44.14	221.00	31.57
72070	T-SPINE AP & LAT	117	3157.00	26.98	1882.00	16.09
72072	T-SPINE AP/LAT/SWIMMER	23	646.00	28.09	425.00	18.48
72080	THORACOLUMBAR AP & LAT	47	1689.00	35.94	929.00	19.77
72100	L-COLIUSIS W SUPINE & ERECT	15	195.00	13.00	195.00	13.00
72110	L-SPINE AP/LAT/ORLTOILE	3/3 147	5200 00	34.83	7012.00	18.80
72114	L-SPINE AP/LAT/OBLIQUE/BENDING	11	574.00	50.11	369 00	24.67 33.55
72120	LUMBOSACRAL BENDING >= 4 VW	5	265.00	53.00	128.00	25.60
72170	PELVIS AP	136	3963.00	29.14	2301.00	16.92
72190	PELVIS >= 3 VW	15	267.00	17.80	210.00	14.00
72200	SACROILIAC < 3 VW	1	28.00	28.00	15.00	15.00
72202	SACROILIAC >= 3 VW	8	177.00	22.13	133.00	16.63
72220 72240	SACRUM/COCCYX >= 2 VW MYELOGRAPHY CERVICAL	29	852.00	29.38	439.00	15.14
72265	MYELOGRAPHY LUMBOSACRAL	27 41	3248.00	120.30	2674.00	99.04
72270	MYELOGRAPHY ENTIRE SPINAL CANA		4530.00 1915.00	110.49 239.38	3567.00 1090.00	87.00
72285	DISCOGRAPHY CERVICAL	ī	350.00	350.00	350.00	136.25 350.00
73000	CLAVICLE	60	1074.00	17.90	756.00	12.60
73010	SCAPULA	15	461.00	30.73	245.00	16.33
73020	SHOULDER 1 VW	229	4272.00	18.66	2620.00	11.44
73030	SHOULDER >= 2 VW	181	7399.00	40.88	3733.00	20.62
73040	ARTHROGRAPHY SHOULDER	10	701.00	70.10	490.00	49.00
73050 73060	ACROMIOCLAVICULAR BILAT W & W/ HUMERUS >= 2 VW	8	255.00	31.88	163.00	20.38
73070	ELBOW AP & LAT	112 83	1966.00 3416.00	17.55	1522.00	13.59
73070	ELBOW >= 3 VW	297	3883.00	41.16 13.07	1959.00 3331.00	23.60 11.22
73090	FOREARM AP & LAT	334	4249.00	12.72	3442.00	10.31
73100	WRIST AP & LAT	679	10774.00	15.87	8265.00	12.17
73110	WRITS >= 3 VW	190	7183.00	37.81	3945.00	20.76

### MANAGED CARE QUERY APPLICATION (MCQA) SUMMARY OF CHAMPUS RADIOLOGICAL PROCEDURES - OUTPATIENT ONLY FY-93 DATA 01 OCT 92 TO 30 SEP 93

	PROCEDURE  ARTHROGRAPHY WRIST  HAND 2 VW  HAND >= 3 VW  FINGER  HIP UNILAT 1 VW  HIP UNILAT 1 VW  HIP BILAT  FEMUR AP & LAT  KNEE AP & LAT  KNEE AP, LAT, OBLIQUE  KNEE AP, LAT, OBLIQUE, TUNNEL  KNEE, BILAT STANDING AP  TIBIA/FIBULA AP & LAT  ANKLE AP & LAT  ANKLE AP & LAT  ANKLE AP & LAT  FOOT >= 3 VW  CALCANEUS  TOE  ABDOMEN AP/OBLIQUE/CONE  ABDOMEN AP/OBLIQUE/CONE/DECUBI  UNCGRAPHY W CONT  UROGRAPHY W CONT  UROGRAPHY PETROGRADE  UROGRAPHY PETROGRADE  URETHROCYSTOGRAPHY PETROGRADE  URETHROCYSTOGRAPHY VOIDING  RENAL CYST TRANSLUMBAR CONT  RENAL PELVIS CATHETER DRAINAGE  HYSTEROSALPINGOGRAPHY  FLUOROSCOPY < 1 HR  FLUOROSCOPY < 1 HR  FLUOROSCOPY > 1 HR  FLUOROSCOP		TOTAL		moma r	
CPT		NUMBER OF	TMIJOMA	AVG AMT	TOTAL	AVG AMT
CODE	PROCEDURE	SERVICES	BILLED	BILLED	ALLOWED	ALLOWED
73115	ARTHROGRAPHY WRIST	9	561.00	62.33	364.00	40.44
73120	HAND 2 VW	462	5633.00	12.19	4868.00	10.54
73130	HAND >= 3 VW	176	6485.00	36.85	3432.00	19.50
73140	FINGER	467	6872.00	14.72	4545.00	9.73
73500	HIP UNILAT 1 VW	29	1043.00	35.97	615.00	21.21
73510	UTD DILAT >= 2 VW	199	5/63.00	28.96	3362.00	16.89
73550	FEMIR AP & LAT	144	3410 00	31.98	2041 00	19.55
73560	KNEE AP & LAT	. 477	11063 00	23.00	6918 00	14.17
73562	KNEE AP, LAT, OBLIQUE	139	6671.00	47.99	3008.00	21 64
73564	KNEE AP, LAT, OBLIQUE, TUNNEL	92	2934.00	31.89	1862.00	20.24
73565	KNEE, BILAT STANDING AP	32	1945.00	60.78	1231.00	38.47
73590	TIBIA/FIBULA AP & LAT	258	5659.00	21.93	3552.00	13.77
73600	ANKLE AP & LAT	535	6480.00	12.11	5549.00	10.37
73610	ANKLE >= 3 VW	188	7694.00	40.93	3882.00	20.65
73620	FOOT AP & LAT	343	14902.00	43.45	8496,00	24.77
73650	CAT CAMERIC	810	1/08/.00	20.94	10896.00	13.35
73660	TOR	109	1419 00	13.20	1019.00	12.64
74000	ABDOMEN AP	198	5221.00	26.37	2777.00	14 03
74010	ABDOMEN AP/OBLIQUE/CONE	86	2356.00	27.40	1261.00	14.66
74020	ABDOMEN AP/OBLIQUE/CONE/DECUBI	95	2977.00	31.34	1622.00	17.07
74022	ABDOMEN COMPLETE W CHEST PA	163	2663.00	16.34	2450.00	15.03
74400	UROGRAPHY	292	14931.00	51.13	10227.00	35.02
74405	UROGRAPHY W CONT	· 1	81.00	81.00	40.00	40.00
74415	UROGRAPHY INFUSION W NEPHROTOM	50	7075.00	141.50	3534.00	70.68
74420	UROGRAPHY RETROGRADE	3	280.00	93.33	85.00	28.33
74425	CVCTCCDADUV - 2 VM	13	147.00	49.00	89.00	29.67
74450	IDETHROCYSTOCRAPHY PETROCRADE	11	266 00	05.31 24 10	335.00	25.77
74455	URETHROCYSTOGRAPHY VOIDING	37	1636 00	44 22	1221 00	24.09
74470	RENAL CYST TRANSLUMBAR CONT	17	466.00	27.41	451.00	26.53
74475	RENAL PELVIS CATHETER DRAINAGE	4	487.00	121.75	295.00	73.75
74740	HYSTEROSALPINGOGRAPHY	42	1608.00	38.29	1340.00	31.90
76000	FLUOROSCOPY < 1 HR	65	3127.00	48.11	1612.00	24.80
76001	FLUOROSCOPY > 1 HR	3	450.00	150.00	123.00	41.00
76003	FLUORO LOCALIZATION NEEDLE BIO	1	150.00	150.00	36.00	36.00
76010	BONE AGE	E /	1155 00	20.00	14.00	14.00
76040	BONE LENGTH	18	1155.00	63 89	559 00	31 06
76062	OSSEOUS SURVEY AXIAL & APPENDI	5	293.00	58.60	169.00	33.80
76066	JOINT SURVEY SINGLE VIEW	6	164.00	27.33	144.00	24.00
76096	BREAST NEEDLE LOCAL PREOP	42	2842.00	67.67	2118.00	50.43
76097	BREAST NEEDLE LOCAL PREOP	2	61.00	30.50	61.00	30.50
76098	BREAST SURGICAL SPECIMEN	28	295.00	10.54	276.00	9.86
76100	SINGLE PLANE BODY SECTION	5	345.00	69.00	277.00	55.40
76140	CONSULTATION X-RAY EXAM	11770	348.00	87.00	113.00	28.25
70433	ONLIST DIGN X-RAT PROCEDURE	11/38	2159074.00	183.94	2021970.00	172.26
		27.895	2 580 582		2 227 625	
		21,055	2,300,302		2,207,000	
	THALLIUM STRESS					
70400	MIOCARDIAL PERFUSION SINGLE	Τ.	100.00	100.00	64.00	64.00
	MYOCARDIAL PERFUSION MULTIPLE		2806.00			100.14
78465	MYOCARDIAL PERFUSION (SPECT)		10709.00	148.74	10313.00	143.24
		95	12615		10500	
		33	13615		12580	
	NUCLEAR MEDICINE					
78000	THYROID UPTAKE SINGLE	1	40.00	40.00	35.00	35.00
78001	THYROID UPTAKE MULTIPLE	1	35.00	35.00	28.00	28.00
78006	THYROID IMAGE W SINGLE UPTAKE	3	217.00	72.33	140.00	46.67
78007	THYROID IMAGE W MULTIPLE UPTAK	25	1306.00	52.24		44.04
78010	THYROID IMAGE ONLY	13	604.00	46.46	432.00	33.23
78015	THYROID CARCINOMA IMAGING LIMI		33.00	33.00	33.00	33.00
78018	THYROID CARCINOMA IMAGING WHOL		1063.00	96.64	916.00	83.27
78070 78075	PARATHYROID IMAGING ADRENAL IMAGING	1 1	171.00	171.00	30.00	30.00
78110	PLASMA VOLUME	2	300.00 88.00	300.00 44.00	46.00 42.00	46.00 21.00
78121	RED CELL VOLUME MULT SAMPLES	2	132.00	66.00	68.00	34.00
78185	SPLEEN IMAGING ONLY	1	81.00	81.00	32.00	32.00
78215	LIVER/SPLEEN IMAGE	9	840.00	93.33	554.00	61.56

Срт		MIMPED OF	TOTAL	74 T/C 74 T/C	TOTAL	2110 2110
CODE	PROCEDITE	SERVICES	RILLED	AVG AMI	AMOUNT	AVG AMT
78216	LIVER/SPLEEN W VASCULAR FLOW	2	260 00	130 00	88 OO	ALLOWED
78220	LIVER FUNCTION STIDY/SERIAL TH	เรื	296 00	98 67	100.00	22 22
78223	HEPATOBILIARY DUCTAL SYSTEM W	17	1737 00	102 18	725 00	42 65
78264	GASTRIC EMPTYING STUDY	7	675.00	96.43	312 00	44 57
78270	SCHILLING W/O INTRINSIC FACTOR	1	92 00	92 00	23 00	23 00
78271	SCHILLING W INTRINSIC FACTOR	. 1	88 00	88 00	75.00	75 00
78272	SCHILLING W & W/O INTRINSIC FA	2	78.00	39.00	48 00	24 00
78280	GI BLOOD LOSS STUDY	1	110 00	110 00	34 00	34 00
78300	BONE LIMITED AREA	30	2064 00	68 80	1545 00	51.00
78305	BONE MULTIPLE AREAS	23	3950 00	171 74	3950 00	171 74
78306	BONE WHOLE BODY	121	12359 00	102 14	10091 00	93 40
78315	BONE THREE PHASE STUDY	12	1822.00	151 83	1210 00	100 83
78428	CARDIAC SHUNT DETECTION	1	216 00	216 00	32 00	32 00
78457	VENOUS THROMBOSIS UNILAT	1	46 00	46 00	46.00	46 00
78464	MYOCARDIAL SPECT SINGLE STUDY	4	81 00	20.00	81 00	20.00
78469	MYOCARDIAL INFARCT (SPECT)	40	3314 00	82 85	3168 00	79 20
78472	CARDIAC BLOOD POOL GATED	13	1666 00	128 15	1315 00	101 15
78580	MYOCARDIAL PERFUSION EXECTION	10	916 00	91 60	335.00	33.60
78585	PULMONARY PERFUSION REPREATH/W	2	418 00	209 00	100.00	50.00
78593	PHILMONARY VENT GASEOUS RERREAT	-	581 00	96 83	228 00	38.00
78606	BRIAN WITH VASCIII.AR FI.OW	1	112 00	112 00	E4 00	54.00
78607	BRAIN (SPECT)	Ē	1204 00	150 50	508.00	63.50
78701	KIDNEY W VASCIII.AR FI.OW	10	1228 00	122 80	571 00	53.30 57.10
78704	KIDNEY WITH FUNCTION STUDY	1	45.00	45 00	45.00	45 00
78707	KIDNEY W WAS PLOW/PINCTION STU		850.00	141 67	E66 00	94 77
78710	KIDNEY IMAGING (SPECT)	1	122 00	122 00	71 00	71 00
78726	KIDNEY FUCTION W PHARMACOLOGIC	Ė	685 00	137 00	225 00	45.00
78740	URETERAL REFLUX	1	85.00	85.00	30.00	30.00
78761	TESTICULAR W VASCULAR FLOW	2	160 00	80.00	95.00	47 50
78802	TUMOR LOCALIZATION WHOLE BODY	2	228.00	114.00	127 00	63 50
78805	ABSCESS LOCALIZATION LIMITED	1	53.00	53.00	53 00	53.00
78890	GENERATION OF AUTOMATED DATA	ī	22.00	22.00	20.00	20.00
78990	PROVISION OF DIAG RADIONUCLIDE	3	66.00	22.00	66.00	22.00
78999	UNLISTED NUC MED PROCEDURE	2	961.00	480.50	961.00	480 50
79000	HYPERTHYROIDISM THERAPY	ī	179.00	179.00	94.00	94.00
		413	41679		30450	
		413	41679		30450	
	MAMMOGRAPHY	413	41679		30450	
W.C.O.O.O.	PROCEDURE  LIVER/SPLEEN W VASCULAR FLOW LIVER FUNCTION STUDY/SERIAL IM HEPATOBILIARY DUCTAL SYSTEM W GASTRIC EMPTYING STUDY SCHILLING W/O INTRINSIC FACTOR SCHILLING W INTRINSIC FACTOR SCHILLING W & W/O INTRINSIC FA GI BLOOD LOSS STUDY BONE LIMITED AREA BONE MULTIPLE AREAS BONE WHOLE BODY BONE THREE PHASE STUDY CARDIAC SHUNT DETECTION VENOUS THROMBOSIS UNILAT MYOCARDIAL SPECT SINGLE STUDY MYOCARDIAL INFARCT (SPECT) CARDIAC BLOOD POOL GATED MYOCARDIAL PERFUSION EJECTION PULMONARY PERFUSION REBREATH/W PULMONARY VENT GASEOUS REBREAT BRIAN WITH VASCULAR FLOW KIDNEY W VASCULAR FLOW KIDNEY W VAS FLOW/FUNCTION STU KIDNEY W VAS FLOW/FUNCTION STU KIDNEY W THAGING (SPECT) KIDNEY FUCTION W PHARMACOLOGIC URETERAL REFLUX TESTICULAR W VASCULAR FLOW TUMOR LOCALIZATION WHOLE BODY ABSCESS LOCALIZATION LIMITED GENERATION OF DIAG RADIONUCLIDE UNLISTED NUC MED PROCEDURE HYPERTHYROIDISM THERAPY	413	41679	22.05	30450	
76090	MAMMOGRAPHY SINGLE BREAST	107	41679 2489.00	23.26	30450	20.27
76090 76091	MAMMOGRAPHY SINGLE BREAST BILAT BREAST	413 107 552	41679 2489.00 16969.00	23.26 30.74	30450 2169.00 15674.00	20.27 28.39
76090 76091 76092	MAMMOGRAPHY SINGLE BREAST BILAT BREAST SCREENING	413 107 552 95	41679 2489.00 16969.00 5764.00	23.26 30.74 60.67	30450 2169.00 15674.00 5597.00	20.27 28.39 58.92
76090 76091 76092	MAMMOGRAPHY SINGLE BREAST BILAT BREAST SCREENING	107 552 95	41679 2489.00 16969.00 5764.00	23.26 30.74 60.67	2169.00 15674.00 5597.00	20.27 28.39 58.92
76090 76091 76092	MAMMOGRAPHY SINGLE BREAST BILAT BREAST SCREENING	107 552 95 	2489.00 16969.00 5764.00	23.26 30.74 60.67	2169.00 15674.00 5597.00	20.27 28.39 58.92
76090 76091 76092	MAMMOGRAPHY SINGLE BREAST BILAT BREAST SCREENING	107 552 95 	2489.00 16969.00 5764.00	23.26 30.74 60.67	2169.00 15674.00 5597.00	20.27 28.39 58.92
76090 76091 76092	SINGLE BREAST BILAT BREAST SCREENING ULTRASOUND	107 552 95  754	2489.00 16969.00 5764.00  25222	23.26 30.74 60.67	2169.00 15674.00 5597.00 	20.27 28.39 58.92
76090 76091 76092	SINGLE BREAST BILAT BREAST SCREENING ULTRASOUND	107 552 95  754	2489.00 16969.00 5764.00  25222	23.26 30.74 60.67	2169.00 15674.00 5597.00 	20.27 28.39 58.92
76090 76091 76092	SINGLE BREAST BILAT BREAST SCREENING ULTRASOUND	107 552 95  754	2489.00 16969.00 5764.00  25222	23.26 30.74 60.67	2169.00 15674.00 5597.00 	20.27 28.39 58.92
76090 76091 76092	SINGLE BREAST BILAT BREAST SCREENING ULTRASOUND	107 552 95  754	2489.00 16969.00 5764.00  25222	23.26 30.74 60.67	2169.00 15674.00 5597.00 	20.27 28.39 58.92
76090 76091 76092 76506 76511 76512 76516	SINGLE BREAST BILAT BREAST SCREENING  ULTRASOUND  HEAD OPHTHALMIC OPHTHALMIC CONTACT B-SCAN OPHTHALMIC BIOMETRY	107 552 95 754	2489.00 16969.00 5764.00 	23.26 30.74 60.67	2169.00 15674.00 5597.00 	20.27 28.39 58.92
76090 76091 76092	SINGLE BREAST BILAT BREAST SCREENING  ULTRASOUND  HEAD OPHTHALMIC OPHTHALMIC CONTACT B-SCAN OPHTHALMIC BIOMETRY	107 552 95 754	2489.00 16969.00 5764.00 	23.26 30.74 60.67	2169.00 15674.00 5597.00 	20.27 28.39 58.92
76090 76091 76092 76506 76511 76512 76516	SINGLE BREAST BILAT BREAST SCREENING ULTRASOUND	107 552 95 754	2489.00 16969.00 5764.00 	23.26 30.74 60.67 52.79 81.00 160.50 160.00	2169.00 15674.00 5597.00 	20.27 28.39 58.92 30.57 81.00 98.00 76.00
76090 76091 76092 76506 76511 76512 76516 76519	SINGLE BREAST BILAT BREAST SCREENING  ULTRASOUND  HEAD OPHTHALMIC OPHTHALMIC CONTACT B-SCAN OPHTHALMIC BIOMETRY OPHTHALMIC BIOMETRY OPHTHALMIC BIOMETRY LENS POWER	107 552 95  754 14 2 4 1 14	2489.00 16969.00 5764.00 25222 739.00 162.00 642.00 160.00 2532.00	23.26 30.74 60.67 52.79 81.00 160.50 160.00 180.86	2169.00 15674.00 5597.00 23440 428.00 162.00 392.00 76.00 1657.00	20.27 28.39 58.92 30.57 81.00 98.00 76.00 118.36
76090 76091 76092 76506 76511 76512 76516 76519 76536	SINGLE BREAST BILAT BREAST SCREENING  ULTRASOUND  HEAD OPHTHALMIC OPHTHALMIC CONTACT B-SCAN OPHTHALMIC BIOMETRY OPHTHALMIC BIOMETRY HEAD/NECK SOFT TISSUE	107 552 95  754 14 2 4 1 14 16	2489.00 16969.00 5764.00 	23.26 30.74 60.67 52.79 81.00 160.50 160.00 180.86 73.50	2169.00 15674.00 5597.00 	20.27 28.39 58.92 30.57 81.00 98.00 76.00 118.36 49.88
76090 76091 76092 76506 76511 76512 76516 76536 76536 76604	SINGLE BREAST BILAT BREAST SCREENING  ULTRASOUND  HEAD OPHTHALMIC OPHTHALMIC CONTACT B-SCAN OPHTHALMIC BIOMETRY OPHTHALMIC BIOMETRY LENS POWER HEAD/NECK SOFT TISSUE CHEST	107 552 95 754 14 2 4 1 14 16 2	2489.00 16969.00 5764.00 	23.26 30.74 60.67 52.79 81.00 160.50 160.00 180.86 73.50 54.50	2169.00 15674.00 5597.00 	20.27 28.39 58.92 30.57 81.00 98.00 76.00 118.36 49.88 43.50 31.75
76090 76091 76092 76506 76511 76512 76516 76519 76536 76604 76645	SINGLE BREAST BILAT BREAST SCREENING  ULTRASOUND  HEAD OPHTHALMIC OPHTHALMIC CONTACT B-SCAN OPHTHALMIC BIOMETRY OPHTHALMIC BIOMETRY OPHTHALMIC BIOMETRY LENS POWER HEAD/NECK SOFT TISSUE CHEST BREAST	107 552 95  754 14 2 4 1 14 16 2 68 64	2489.00 16969.00 5764.00 	23.26 30.74 60.67 52.79 81.00 160.50 160.00 180.86 73.50 54.50 47.90 95.06	2169.00 15674.00 5597.00 	20.27 28.39 58.92 30.57 81.00 98.00 76.00 118.36 49.88 43.50 31.75 60.45
76090 76091 76092 76506 76511 76516 76516 76536 76645 76645 76700	SINGLE BREAST BILAT BREAST SCREENING  ULTRASOUND  HEAD OPHTHALMIC OPHTHALMIC CONTACT B-SCAN OPHTHALMIC BIOMETRY OPHTHALMIC BIOMETRY LENS POWER HEAD/NECK SOFT TISSUE CHEST BREAST ABDOMINAL	107 552 95  754 14 2 4 1 14 16 2 68 64 312	2489.00 16969.00 5764.00 	23.26 30.74 60.67 52.79 81.00 160.50 160.00 180.86 73.50 54.50 47.90	2169.00 15674.00 5597.00 	20.27 28.39 58.92 30.57 81.00 98.00 76.00 118.36 49.88 43.50 31.75 60.45 40.35
76090 76091 76092 76506 76511 76512 76516 76545 76644 76645 76700 76705	SINGLE BREAST BILAT BREAST SCREENING  ULTRASOUND  HEAD OPHTHALMIC OPHTHALMIC CONTACT B-SCAN OPHTHALMIC BIOMETRY OPHTHALMIC BIOMETRY LENS POWER HEAD/NECK SOFT TISSUE CHEST BREAST ABDOMINAL ABDOMINAL ABDOMINAL LIMITED RETROPERITONEAL	107 552 95 754 14 2 4 1 16 2 68 64 312 79	2489.00 16969.00 5764.00 	23.26 30.74 60.67 52.79 81.00 160.50 160.00 180.86 73.50 54.50 47.90 95.06 69.04 97.61	2169.00 15674.00 5597.00 	20.27 28.39 58.92 30.57 81.00 98.00 76.00 118.36 49.88 43.50 31.75 60.45 40.35 62.05
76090 76091 76092 76506 76511 76512 76516 76519 76536 76604 76645 76700 76700 76770	SINGLE BREAST BILAT BREAST SCREENING  ULTRASOUND  HEAD OPHTHALMIC OPHTHALMIC CONTACT B-SCAN OPHTHALMIC BIOMETRY OPHTHALMIC BIOMETRY ENERGY OPHTHALMIC BIOMETRY LENS POWER HEAD/NECK SOFT TISSUE CHEST BREAST ABDOMINAL ABDOMINAL LIMITED	107 552 95  754 14 2 4 1 14 16 2 68 64 312	2489.00 16969.00 5764.00 	23.26 30.74 60.67 52.79 81.00 160.50 160.00 180.86 73.50 54.50 47.90 95.06 69.04	2169.00 15674.00 5597.00 	20.27 28.39 58.92 30.57 81.00 98.00 76.00 118.36 49.88 43.50 31.75 60.45 40.35
76090 76091 76092 76506 76511 76512 76516 76519 76536 76604 76645 76700 76770 76770	SINGLE BREAST BILAT BREAST SCREENING  ULTRASOUND  HEAD OPHTHALMIC OPHTHALMIC CONTACT B-SCAN OPHTHALMIC BIOMETRY OPHTHALMIC BIOMETRY LENS POWER HEAD/NECK SOFT TISSUE CHEST BREAST ABDOMINAL ABDOMINAL ABDOMINAL ABTOPERITONEAL RETROPERITONEAL RETROPERITONEAL LIMITED	107 552 95 754 14 2 4 1 16 2 68 64 312 79 10	2489.00 16969.00 5764.00 	23.26 30.74 60.67 52.79 81.00 160.50 160.00 180.86 73.50 54.50 47.90 95.06 69.04 97.61 59.00	2169.00 15674.00 5597.00 	20.27 28.39 58.92 30.57 81.00 98.00 76.00 118.36 49.88 43.50 31.75 60.45 40.35 62.05 40.00
76090 76091 76092 76506 76511 76512 76516 76519 76604 76645 76700 76705 76775 76775	SINGLE BREAST BILAT BREAST SCREENING  ULTRASOUND  HEAD OPHTHALMIC CONTACT B-SCAN OPHTHALMIC BIOMETRY OPHTHALMIC BIOMETRY OPHTHALMIC BIOMETRY LENS POWER HEAD/NECK SOFT TISSUE CHEST BREAST ABDOMINAL ABDOMINAL ABDOMINAL ABTOPERITONEAL RETROPERITONEAL PREGNANT UTERUS	107 552 95  754 14 2 4 1 14 16 2 68 64 312 79 10 38	2489.00 16969.00 5764.00 	23.26 30.74 60.67 52.79 81.00 160.50 160.00 180.86 73.50 54.50 47.90 95.06 69.04 97.61 59.00 54.84	2169.00 15674.00 5597.00 	20.27 28.39 58.92 30.57 81.00 98.00 76.00 118.36 49.88 43.50 31.75 60.45 40.35 40.35
76090 76091 76092 76506 76511 76516 76516 76536 76604 76700 767705 767705 767705 76805 76805	SINGLE BREAST BILAT BREAST SCREENING  ULTRASOUND  HEAD OPHTHALMIC OPHTHALMIC CONTACT B-SCAN OPHTHALMIC BIOMETRY OPHTHALMIC BIOMETRY ENERGY OPHTHALMIC BIOMETRY LENS POWER HEAD/NECK SOFT TISSUE CHEST BREAST ABDOMINAL ABDOMINAL ABDOMINAL ABTOPERITONEAL RETROPERITONEAL RETR	107 552 95 754 14 2 4 1 14 16 2 68 64 312 79 10 38 2	2489.00 16969.00 5764.00 	23.26 30.74 60.67 52.79 81.00 160.50 160.50 180.86 73.50 54.50 47.90 95.06 69.04 97.61 59.00 54.84 153.50	2169.00 15674.00 5597.00 	20.27 28.39 58.92 30.57 81.00 98.00 118.36 49.88 43.50 31.75 60.45 40.35 62.05 40.00 52.32 76.50
76090 76091 76092 76506 76511 76512 76516 76519 76536 76604 76705 76705 76775 76805 76805 76815	SINGLE BREAST BILAT BREAST SCREENING  ULTRASOUND  HEAD OPHTHALMIC OPHTHALMIC CONTACT B-SCAN OPHTHALMIC BIOMETRY OPHTHALMIC BIOMETRY LENS POWER HEAD/NECK SOFT TISSUE CHEST BREAST ABDOMINAL ABDOMINAL ABDOMINAL ABTOPERITONEAL RETROPERITONEAL RETROPERITONEAL RETROPERITONEAL LIMITED PREGNANT UTERUS PREGNANT UTERUS PREGNANT UTERUS FETAL BIOPHYSICAL PROFILE	107 552 95 754 14 2 4 1 16 2 68 64 312 79 10 38 2	2489.00 16969.00 5764.00 	23.26 30.74 60.67 52.79 81.00 160.50 160.00 180.86 73.50 54.50 47.90 95.06 69.04 97.61 59.00 54.84 153.50 192.50	2169.00 15674.00 5597.00 	20.27 28.39 58.92 30.57 81.00 98.00 76.00 118.36 49.88 43.50 31.75 60.35 62.05 40.00 52.32 76.50 106.00
76090 76091 76092 76506 76511 76512 76516 76519 76536 76604 76705 76770 76775 76805 76815 76818 76825	SINGLE BREAST BILAT BREAST SCREENING  ULTRASOUND  HEAD OPHTHALMIC OPHTHALMIC CONTACT B-SCAN OPHTHALMIC BIOMETRY OPHTHALMIC BIOMETRY LENS POWER HEAD/NECK SOFT TISSUE CHEST BREAST ABDOMINAL ABDOMINAL ABDOMINAL LIMITED RETROPERITONEAL RETROPERITONEAL RETROPERITONEAL LIMITED PREGNANT UTERUS PREGNANT UTERUS PREGNANT UTERUS PREGNANT UTERUS LIMITED FETAL BIOPHYSICAL PROFILE FETAL CARDIOVASCULAR SYSTEM	107 552 95 754 14 2 4 1 16 2 68 64 312 79 10 38 2	2489.00 16969.00 5764.00 	23.26 30.74 60.67 52.79 81.00 160.50 160.50 160.86 73.50 54.50 47.90 95.06 69.04 97.61 59.00 54.84 153.50 192.50 194.33 183.41 82.89	2169.00 15674.00 5597.00 	20.27 28.39 58.92 30.57 81.00 98.00 76.00 118.36 49.88 43.50 31.75 60.45 40.00 52.32 76.50 106.00 75.67
76090 76091 76092 76506 76511 76512 76516 76519 76536 76645 76700 76775 76805 76815 76815 76825 76830	SINGLE BREAST BILAT BREAST SCREENING  ULTRASOUND  HEAD OPHTHALMIC OPHTHALMIC CONTACT B-SCAN OPHTHALMIC BIOMETRY OPHTHALMIC BIOMETRY LENS POWER HEAD/NECK SOFT TISSUE CHEST BREAST ABDOMINAL ABDOMINAL ABDOMINAL ABDOMINAL LIMITED RETROPERITONEAL RETROPERITONEAL RETROPERITONEAL LIMITED PREGNANT UTERUS PREGNANT UTERUS PREGNANT UTERUS LIMITED FETAL BIOPHYSICAL PROFILE FETAL CARDIOVASCULAR SYSTEM TRANSVAGINAL	107 552 95 754 14 2 4 1 16 2 68 64 312 79 10 38 2 10 3	2489.00 16969.00 5764.00 	23.26 30.74 60.67 52.79 81.00 160.50 160.00 180.86 73.50 47.90 95.06 69.04 97.61 59.00 54.84 153.50 192.50 194.33 183.41	2169.00 15674.00 5597.00 	20.27 28.39 58.92 30.57 81.00 98.00 76.00 118.36 49.88 43.50 31.75 60.45 40.35 62.05 40.00 52.32 76.50 106.00 75.67 122.23
76090 76091 76092 76506 76511 76516 76516 76536 76604 76705 76770 76775 76805 76818 76818 76820 76830 76830	SINGLE BREAST BILAT BREAST SCREENING  ULTRASOUND  HEAD OPHTHALMIC OPHTHALMIC CONTACT B-SCAN OPHTHALMIC BIOMETRY OPHTHALMIC BIOMETRY OPHTHALMIC BIOMETRY LENS POWER HEAD/NECK SOFT TISSUE CHEST BREAST ABDOMINAL ABDOMINAL LIMITED RETROPERITONEAL RETROPERITONEAL RETROPERITONEAL LIMITED PREGNANT UTERUS PREGNANT UTERUS PREGNANT UTERUS LIMITED FETAL BIOPHYSICAL PROFILE FETAL CARDIOVASCULAR SYSTEM TRANSVAGINAL PELVIC NONOBSTETRIC	107 552 95 754 14 2 4 1 14 16 2 68 64 312 79 10 38 2 10 3	2489.00 16969.00 5764.00 25222  739.00 162.00 642.00 160.00 2532.00 1176.00 109.00 3257.00 6084.00 21539.00 7711.00 590.00 2084.00 307.00 1925.00 583.00 22009.00 46584.00	23.26 30.74 60.67 52.79 81.00 160.50 160.50 160.86 73.50 54.50 47.90 95.06 69.04 97.61 59.00 54.84 153.50 192.50 194.33 183.41 82.89	2169.00 15674.00 5597.00 	20.27 28.39 58.92 30.57 81.00 98.00 76.00 118.36 49.88 43.50 31.75 60.45 40.35 62.05 40.35 62.05 76.50 106.00 75.67 122.23 59.67
76090 76091 76092 76506 76511 76512 76516 76519 76536 76700 76775 76805 76770 76775 76815 76818 76825 76830 76830 76830 76856	SINGLE BREAST BILAT BREAST SCREENING  ULTRASOUND  HEAD OPHTHALMIC OPHTHALMIC CONTACT B-SCAN OPHTHALMIC BIOMETRY OPHTHALMIC BIOMETRY OPHTHALMIC BIOMETRY LENS POWER HEAD/NECK SOFT TISSUE CHEST BREAST ABDOMINAL ABDOMINAL ABDOMINAL ABTOPERITONEAL RETROPERITONEAL RETROPERITO	107 552 95 754 14 2 4 1 14 16 2 68 64 312 79 10 3 8 2 10 3 120 562 3	2489.00 16969.00 5764.00 	23.26 30.74 60.67 52.79 81.00 160.50 160.00 180.86 73.50 54.50 47.90 95.06 69.04 97.61 59.00 192.50 194.33 183.41 82.89 92.33	2169.00 15674.00 5597.00 	20.27 28.39 58.92 30.57 81.00 98.00 76.00 118.36 49.88 43.50 540.35 40.35 62.05 40.00 75.67 122.23 59.67 46.67
76090 76091 76092 76506 76511 76512 76516 76519 76536 76604 76705 76775 76775 76805 76805 76818 76825 76830 76856 76857 76857	SINGLE BREAST BILAT BREAST SCREENING  ULTRASOUND  HEAD OPHTHALMIC OPHTHALMIC CONTACT B-SCAN OPHTHALMIC BIOMETRY OPHTHALMIC BIOMETRY LENS POWER HEAD/NECK SOFT TISSUE CHEST BREAST ABDOMINAL ABDOMINAL ABDOMINAL LIMITED RETROPERITONEAL LIMITED PREGNANT UTERUS PREGNANT UTERUS PREGNANT UTERUS LIMITED FETAL BIOPHYSICAL PROFILE FETAL CARDIOVASCULAR SYSTEM TRANSVAGINAL PELVIC NONOBSTETRIC PELVIC NONOBSTETRIC SCROTUM	107 552 95 	2489.00 16969.00 5764.00 25222  739.00 162.00 642.00 160.00 2532.00 1176.00 109.00 3257.00 6084.00 21539.00 7711.00 590.00 2084.00 307.00 1925.00 583.00 22009.00 46584.00 277.00 778.00	23.26 30.74 60.67 52.79 81.00 160.50 160.00 180.86 73.50 54.50 47.90 95.06 69.04 97.61 59.00 54.84 153.50 192.50 194.33 183.41 82.89 92.33 111.14	2169.00 15674.00 5597.00 	20.27 28.39 58.92 30.57 81.00 98.00 76.00 118.36 49.88 43.50 31.75 60.45 40.00 52.32 76.50 106.00 75.67 122.23 59.67 46.67 66.43
76090 76091 76092 76506 76511 76512 76516 76519 76536 76645 76700 76775 76805 76870 76875 76818 76825 76830 76856 76857 76870	SINGLE BREAST BILAT BREAST SCREENING  ULTRASOUND  HEAD OPHTHALMIC OPHTHALMIC CONTACT B-SCAN OPHTHALMIC BIOMETRY OPHTHALMIC BIOMETRY LENS POWER HEAD/NECK SOFT TISSUE CHEST BREAST ABDOMINAL ABDOMINAL LIMITED RETROPERITONEAL RETROPERITONEAL RETROPERITONEAL LIMITED PREGNANT UTERUS PREGNANT UTERUS PREGNANT UTERUS PREGNANT UTERUS LIMITED FETAL BIOPHYSICAL PROFILE FETAL CARDIOVASCULAR SYSTEM TRANSVAGINAL PELVIC NONOBSTETRIC PELVIC NONOBSTETRIC PELVIC NONOBSTETRIC LIMITED SCROTUM TRANSRECTAL	107 552 95 754 14 2 4 1 16 2 68 64 312 79 10 38 2 10 3 120 562 3 7	2489.00 16969.00 5764.00 25222  739.00 162.00 642.00 160.00 2532.00 1176.00 109.00 3257.00 6084.00 21539.00 7711.00 590.00 2084.00 307.00 1925.00 583.00 22009.00 46584.00 277.00 778.00 3979.00	23.26 30.74 60.67 52.79 81.00 160.50 160.00 180.86 73.50 54.50 47.90 95.06 69.04 97.61 59.00 54.84 153.50 192.50 194.33 183.41 82.89 92.33 111.14 198.95	2169.00 15674.00 5597.00 	20.27 28.39 58.92 30.57 81.00 98.00 76.00 118.36 43.50 31.75 60.45 40.00 52.32 76.50 106.00 75.67 122.23 59.67 46.43 113.60
76090 76091 76092 76592 76511 76516 76516 76536 76645 76705 76775 76818 76818 76825 76830 76856 76857 76857 76872 76872 76880	SINGLE BREAST BILAT BREAST SCREENING  ULTRASOUND  HEAD OPHTHALMIC OPHTHALMIC CONTACT B-SCAN OPHTHALMIC BIOMETRY OPHTHALMIC BIOMETRY OPHTHALMIC BIOMETRY LENS POWER HEAD/NECK SOFT TISSUE CHEST BREAST ABDOMINAL ABDOMINAL LIMITED RETROPERITONEAL RETROPERITONEAL RETROPERITONEAL LIMITED PREGNANT UTERUS PREGNANT UTERUS PREGNANT UTERUS PREGNANT UTERUS LIMITED FETAL BIOPHYSICAL PROFILE FETAL CARDIOVASCULAR SYSTEM TRANSVAGINAL PELVIC NONOBSTETRIC PELVIC NONOBSTETRIC PELVIC NONOBSTETRIC SCROTUM TRANSRECTAL EXTREMITY	107 552 95 	2489.00 16969.00 5764.00 25222  739.00 162.00 642.00 160.00 2532.00 1176.00 109.00 3257.00 6084.00 21539.00 7711.00 590.00 2084.00 307.00 1925.00 583.00 22009.00 46584.00 277.00 778.00 379.00 3979.00 435.00	23.26 30.74 60.67 52.79 81.00 160.50 160.50 160.50 47.90 95.06 69.04 97.61 59.00 54.84 153.50 192.50 194.33 183.41 82.89 92.33 111.14 198.95 54.38	2169.00 15674.00 5597.00 	20.27 28.39 58.92 30.57 81.00 98.00 76.00 118.36 49.88 43.50 52.05 40.35 62.05 40.35 62.05 76.50 106.00 75.22 76.50 106.67 122.23 59.67 46.67 66.43 113.60 35.25
76090 76091 76092 76506 76511 76516 76516 76516 76604 76705 76770 76770 76770 76818 76818 76825 76818 76825 76830 76857 76850 76857 76850	SINGLE BREAST BILAT BREAST SCREENING  ULTRASOUND  HEAD OPHTHALMIC OPHTHALMIC CONTACT B-SCAN OPHTHALMIC BIOMETRY OPHTHALMIC BIOMETRY OPHTHALMIC BIOMETRY LENS POWER HEAD/NECK SOFT TISSUE CHEST BREAST ABDOMINAL ABDOMINAL LIMITED RETROPERITONEAL RETROPERITONEAL RETROPERITONEAL LIMITED PREGNANT UTERUS PREGNANT UTERUS PREGNANT UTERUS LIMITED FETAL BIOPHYSICAL PROFILE FETAL CARDIOVASCULAR SYSTEM TRANSVAGINAL PELVIC NONOBSTETRIC PELVIC NONOBSTETRIC PELVIC NONOBSTETRIC EXTREMITY THORACENTESIS GUIDANCE	107 552 95 754 14 2 4 1 14 16 2 68 64 312 79 10 38 2 10 3 120 562 3 7 20 8	2489.00 16969.00 5764.00 25222  739.00 162.00 642.00 160.00 2532.00 1176.00 109.00 3257.00 6084.00 21539.00 7711.00 590.00 2084.00 307.00 1925.00 583.00 22009.00 46584.00 277.00 778.00 3979.00 435.00 190.00	23.26 30.74 60.67 52.79 81.00 160.50 160.00 180.86 73.50 54.50 47.90 95.06 69.04 97.61 59.00 54.84 153.50 192.50 194.33 183.41 82.89 92.33 111.14 198.95 54.38 95.00	2169.00 15674.00 5597.00 	20.27 28.39 58.92 30.57 81.00 98.00 76.00 118.36 49.88 43.50 52.05 40.35 62.05 40.35 62.05 40.32 76.50 106.00 75.67 122.23 59.67 66.43 113.66 49.88
76090 76091 76092 76506 76511 76512 76516 76519 76536 76645 76770 76775 76805 76870 76825 76830 76857 76870 76872 76870 76872 76870	SINGLE BREAST BILAT BREAST SCREENING  ULTRASOUND  HEAD OPHTHALMIC OPHTHALMIC CONTACT B-SCAN OPHTHALMIC BIOMETRY OPHTHALMIC BIOMETRY OPHTHALMIC BIOMETRY LENS POWER HEAD/NECK SOFT TISSUE CHEST BREAST ABDOMINAL ABDOMINAL ABDOMINAL ABTOPERITONEAL LIMITED RETROPERITONEAL LIMITED PREGNANT UTERUS PREGNANT UTERUS PREGNANT UTERUS FETAL BIOPHYSICAL PROFILE FETAL CARDIOVASCULAR SYSTEM TRANSVAGINAL PELVIC NONOBSTETRIC PELVIC NONOBSTETRIC PELVIC NONOBSTETRIC SCROTUM TRANSRECTAL EXTREMITY THORACENTESIS GUIDANCE CYST/RENAL PELVIS ASPIRATION G	107 552 95 754 14 2 4 1 16 2 68 64 312 79 10 3 120 562 3 7 20 8	2489.00 16969.00 5764.00 25222  739.00 162.00 642.00 160.00 2532.00 1176.00 109.00 3257.00 6084.00 21539.00 7711.00 590.00 2084.00 307.00 1925.00 583.00 22009.00 46584.00 277.00 778.00 3979.00 435.00 190.00 615.00	23.26 30.74 60.67 52.79 81.00 160.50 160.00 180.86 73.50 54.50 47.90 95.06 69.04 97.61 59.00 192.50 194.33 183.41 82.89 92.33 111.14 198.95 54.38 95.00 123.00	2169.00 15674.00 5597.00 	20.27 28.39 58.92 30.57 81.00 98.00 76.00 118.36 49.88 43.50 52.35 40.35 62.05 40.35 62.05 40.30 75.67 122.23 59.67 46.43 113.60 35.25 40.35 40.35 76.20

### MANAGED CARE QUERY APPLICATION (MCQA) SUMMARY OF CHAMPUS RADIOLOGICAL PROCEDURES - OUTPATIENT ONLY FY-93 DATA 01 OCT 92 TO 30 SEP 93

			TOTAL		TOTAL	
CPT	PROCEDURE	NUMBER OF	AMOUNT	AVG AMT	AMOUNT	AVG AMT
CODE	PROCEDURE	SERVICES	BILLED	BILLED	ALLOWED	ALLOWED
76970	US FOLLOW UP STUDY	1	31.00	31.00	31 00	31 00
76986	US INTRAOPERATIVE	3	500.00	166 67	200.00	66 67
76999	UNITED HE PROCEDURE	88	5578 00	62 20	2469.00	20.07
,0555	CALIBIED OF PROCEEDING		3378.00	03.39	3400.00	39.41
	US FOLLOW UP STUDY US INTRAOPERATIVE UNLISTED US PROCEDURE	1401	126242			
	CA OFFI O TAMBORITATA	1491	136242		89178	
74220	GI ESOPHAGUS	51	2646.00	51.88	1669.00	32.73
74230	PHARYNX SWALLOWING CINERADIOGR	29	737.00	25.41	734.00	25.31
74240	GI TRACT UPPER W/O KUB	125	9051.00	72.41	5802.00	46.42
74241	GI TRACT UPPER W KUB	186	6011.00	32.32	5820.00	31.29
74245	GI TRACT UPPER W SMALL BOWEL	41	2652.00	64.68	2057.00	50.17
74246	GI TRACT UPPER AIR CONT W BARD	52	4138.00	79.58	2475.00	47.60
74247	GI UPPER AIR CONT W BARIUM/KUE	3	99.00	33.00	99.00	33.00
74249	GI AIR CONT W BAR/KUB SMALL BO	) 1	261.00	261.00	167.00	167.00
74250	SMALL BOWEL	22	956.00	43.45	703.00	31 95
74300	CHOLANGTOGRAPHY SURGERY	18	508 00	28 22	369 00	20 50
74305	CHOLANGTOGRAPHY POSTOP	3	77 00	25 67	56.00	10 67
74328	BILIARY DUCT ENDO CATH	7	449 00	64.00	440.00	63.07
74330	DIDIARI DOCI ENDO CATH	é	450.00	76.50	440.00	62.00
74270	COLON DARTIN ENEMA	0.7	459.00	76.50	409.00	68.17
74270	COLON BARIOM ENEMA	97	6769.00	69.78	4752.00	48.99
74280	BARIUM AIR CONT	25	1850.00	74.00	1402.00	56.08
74290	CHOLECYSTOGRAPHY	13	482.00	37.08	263.00	20.23
74340	GI X-RAY GUIDE INTUBATION	2	339.00	169.50	64.00	32.00
		681	37483		27281	
	GI ESOPHAGUS PHARYNX SWALLOWING CINERADIOGE GI TRACT UPPER W/O KUB GI TRACT UPPER W KUB GI TRACT UPPER W SMALL BOWEL GI TRACT UPPER AIR CONT W BARIUM/KUE GI AIR CONT W BAR/KUB SMALL BOWEL CHOLANGIOGRAPHY SURGERY CHOLANGIOGRAPHY POSTOP BILLIARY DUCT ENDO CATH BILIARY/PANCREATIC ENDO CATH COLON BARIUM ENEMA BARIUM AIR CONT CHOLECYSTOGRAPHY GI X-RAY GUIDE INTUBATION					
	CT					
76360	CT NEEDLE BIOPSY	9	1550.00	172.22	1385.00	153.89
76370	CT PLACE OF RAD THER	3	372.00	124.00	191.00	63.67
76375	CT OTHER PLANES	233	3585.00	15.39	191.00 3268.00 26495.00	14.03
74160	CT ABDOMEN W CONT	192	40839.00	212.70	26495 00	137.99
73201	CT ARM W CONT	22	873 00	436.50	411.00	205.50
73200	CT HODED EXTREMITY WO CONTRACT	1 1	148 00	149 00	111.00	111.00
70460	OT DEATH N CONT		140.00	140.00	111.00 7579.00	
70400	CI BRAIN W CONI	69	3383.00	144.//	15/9.00	109.84
70481	CT EAR W CONT	4	626.00	156.50	516.00 3118.00	129.00
70487	CT FACE W CONT	34	3161.00	92.97	3118.00	91.71
73701	CT LEG W CONT	2	277.00	138.50	220.00	110.00
70490	CT NECK W CONT	6	479.00	79.83	478.00	79.67
70491	CT NECK W CONT	28	4650.00	166.07	3422.00	122.21
72193	CT PELVIS W CONT	93	15833.00	170.25	13771.00	148.08
72126	CT C-SPINE W CONT	6	858.00	143.00	804.00	134.00
72132	CT L-SPINE W CONT	11	1223.00	111.18	1053.00 14478.00	95.73
71260	CT THORAX W CONT	102	23106.00	226.53	14478.00	141.94
74150	CT ABDOMEN W/O CONT	26	4756.00	182.92	3150.00	121.15
70450	CT BRAIN W/O CONT	173	21359.00	123 46	16089 00	93.00
70480	CT EAR W/O CONT	9	2329.00	258.78	1452.00	161.33
70486	CT FACE W/O CONT	120	2222.00	169 42	17055 00	123.59
73700	CT LEG W/O CONT	230	406 20	101.45	356.00	89.00
72192	CT DELUTE W/O COMP	17	1075 00	116 10	3150.00 16089.00 1452.00 17055.00 356.00 1721.00	101.24
72125	CT C-CDINE W/O CONT	27	E102.00	160.10	2051.00	
72120	CT C-SEINE M/O CONT	34	5EA 00	202.20	3331.00	123.47
72128	CT  CT NEEDLE BIOPSY CT PLACE OF RAD THER CT OTHER PLANES CT ABDOMEN W CONT CT ARM W CONT CT UPPER EXTREMITY WO CONTRAST CT BRAIN W CONT CT EAR W CONT CT FACE W CONT CT LEG W CONT CT NECK W CONT CT NECK W CONT CT PELVIS W CONT CT C-SPINE W CONT CT L-SPINE W CONT CT THORAX W CONT CT ABDOMEN W/O CONT CT EAR W/O CONT CT EAR W/O CONT CT EAR W/O CONT CT FACE W/O CONT CT L-SPINE W/O CONT CT C-SPINE W/O CONT	4	564.00	141.00	474.00	118.50
				100 70	10040 00	220 40
72131	CT L-SPINE W/O CONT	77	15384.00	199.79	10042.00	130.42
71250	CT THORAX W/O CONT	23	4550.00	197.83	2849.00	123.87
74170	CT ABD W & W/O CONT	60	15778.00	262.97	10913.00	181.88
73202	CT ARM W & W/O CONT	1	49.00	49.00	49.00	49.00
70470	CT BRAIN W & W/O CONT	103	17467.00	169.58	13370.00	129.81
70482	CT EAR W & W/O CONT	3	331.00	110.33	331.00	110.33
70488	CT FACE W & W/O CONT	14	1532.00	109.43	1532.00	109.43
70492	CT NECK W & W/O CONT	1	111.00	111.00	111.00	111.00
72194	CT PELVIS W & W/O CONT	27	5754.00	213.11	4810.00	178.15
71270	CT THORAX W & W/O CONT	11	2390.00	217.27	1832.00	166.55
		1518	230878.2		167387	
		1310	2500,0.2		207307	
	MRI					
	PSENJA.					
74101	MDT ADDOMENT	4.4	EE01 40	500 05	2025 25	075 00
74181	MRI ABDOMEN	11	5591.00	508.27	3025.00	275.00
73721	MRI ANKLE	49	25537.00	521.16	17558.00	358.33
73220	MRI ARM/HAND	12	7189.00	599.08	3297.00	274.75
70551	MRI BRAIN	94	57668.00	613.49	29626.00	315.17
70552	MRI BRIAN WITH CONTRAST	1	1395.00	*****	674.00	674.00

### MANAGED CARE QUERY APPLICATION (MCQA) SUMMARY OF CHAMPUS RADIOLOGICAL PROCEDURES - OUTPATIENT ONLY FY-93 DATA 91 OCT 92 TO 30 SEP 93

			moma r			
CPT CODE 71550	PROCEDURE MRI CHEST MRI ELBOW/WRIST/FINGER MRI FACE/NECK/ORBIT MRI HEART MRI LEG	NUMBER OF SERVICES 7	TOTAL AMOUNT BILLED 4731,00	AVG AMT BILLED 675.86	TOTAL AMOUNT ALLOWED 2634.00	AVG AMT ALLOWED 376.29
73221	MRI ELBOW/WRIST/FINGER	20	6350.00	317.50	3660.00	183.00
70540	MRI FACE/NECK/ORBIT	17	6903.00	406.06	4105.00	241.47
75552	MRI HEART	2	1050.00	525.00	234.00	117.00
73720 72196	MRI LEG MRI PELVIS		6399.00	581.73	2895.00	263.18
72156	MRI C-SPINE WITH & WO CONTRAST	13 [ 1	11696.00 1350.00	899.69 1350.00	4979.00 1350.00	383.00
72157	MRI T-SPINE WITH & WO CONTRAST MRI L-SPINE WITH & WO CONTRAST MRI C-SPINE	1	1350.00	1350.00	321.00	1350.00 321.00
72158	MRI L-SPINE WITH & WO CONTRAST	r î	1350 00	974.37	321.00	321.00
72141	MRI C-SPINE	63	61385.00	974 37	26746 00	424.54
72146	MRI T-SPINE	2	1940.00	970.00	955.00	477.50
72148	MRI L-SPINE	55	59996.00	1090.84	27294.00	496.25
	MRI L-SPINE	1	1395.00	1395.00	955.00 27294.00 688.00 6612.00	688.00
70336	MRI C-SPINE MRI T-SPINE MRI L-SPINE MRI L-SPINE MRI L-SPINE MRI TEMPOROMANDIBULAR	15	13000.00	866.67	6612.00	440.80
		376	276275		136974	
75605	CARDIAC/ARTERIAL/VENOUS  AORTOGRAPHY ABDOMINAL SERIALOG			155.00		
75625 75630	AORTOGRAPHY ABDOMINAL SEKIALOG	1 12	155.00 2250.00	155.00 187.50	155.00	155.00
75650	AORTOGRAPHY ABD BILAT ILIOFEMO ANGIOGRAPHY CERVICEREBRAL CATE	7	1225 00	175.00	2250.00 1225.00	187.50 175.00
75665	ANGIOGRAPHY CAROTID/CEREBRAL U	1 1	185.00	185.00	185.00	185.00
75680	ANGIOGRAPHY CAROTID/CEREBRAL E	3 13	3130.00	240.77		220.31
75685	ANGIOGRAPHY VERTEBRAL/CERVICAL	2	365.00	182.50	365.00	182.50
75710	ANGIOGRAPHY EXTREMITY UNILAT	3	465.00	155.00	465.00	155.00
75726	ANGIOGRAPHY VISCERAL	1	155.00	155.00	155.00	155.00
75731 75754	ANGIOGRAPHY ADRENAL UNILAT	1	244.00	244.00	210.00	210.00
75766	ANGIOGRAPHI CORONARI BILAT	1	255 00	156.67 255.00	1258.00 219.00	139.78 219.00
75774	ANGIOGRAPHY SELECTIVE	1	155.00	155.00	155.00	155.00
75790	ANGIOGRAPHY ARTERIOVENOUS SHUN	7 2	310.00	155.00	142.00	71.00
75820	VENOGRAPHY EXTREMITY UNILAT	10	1036.00	103.60	402.00	40.20
75822	VENOGRAPHY EXTREMITY BILAT	1	175.00	175.00	53.00	53.00
75827	VENOGRAPHY CAVAL SERIALOGRAPH	1	155.00	155.00	155.00	155.00
75960	INTRAVASCULAR STENT TRANSCATHE	2	770.00	385.00	525.00	262.50
75962 75964	ARTERY TRANSLUMINAL BALLOON AN	IG 3	125 00	191.67	53.00 155.00 525.00 575.00 125.00	191.67 125.00
75978	VENOUS TRANSLUMINAL BALLOON AN	G 1	230.00	230.00		41.00
	AORTOGRAPHY ABD BILAT ILIOFEM ANGIOGRAPHY ANGIOGRAPHY CAROTID/CEREBRAL CATE ANGIOGRAPHY ANGIOGRAPHY ANGIOGRAPHY ANGIOGRAPHY VERTBERAL/CERVICAL ANGIOGRAPHY EXTREMITY UNILAT ANGIOGRAPHY ADRENAL UNILAT ANGIOGRAPHY CORONARY BILAT ANGIOGRAPHY CORONARY BYPASS ANGIOGRAPHY ARTERIOVENOUS SHUN VENOGRAPHY EXTREMITY UNILAT VENOGRAPHY EXTREMITY UNILAT VENOGRAPHY EXTREMITY UNILAT VENOGRAPHY EXTREMITY BILAT VENOGRAPHY CAVAL SERIALOGRAPH INTRAVASCULAR STENT TRANSCATHE ARTERY TRANSLUMINAL BALLOON AN ANGIOPLASTY, TRANSLUMINAL BALL					
		73	13370		11524	
	RADIATION THERAPY					
77261		27	3613.00	133.81	1578.00	58.44
77262 77263		6 44	1022.00 8650.00	170.33 196.59 104.34	528.00 5704.00	88.00 129.64
77280		64	6678.00	104 34	3910.00	61.09
77285		11	2075.00	188.64	973.00	88.45
77290		57	14241.00	249.84	7173.00	125.84
77300		171	13459.00	249.84 78.71	6113.00	35.75
77305		3	273.00	91.00	135.00	45.00
77310			122.00	122.00	62.00	62.00
77315 77321		49 6	8175.00 1140.00	166.84 190.00	4039.00 444.00	82.43 74.00
77328		1	340.00	340.00	121.00	121.00
77331		2	221.00	110.50	102.00	51.00
77332		7	682.00	97.43	231.00	33.00
77333		6	834.00	139.00	291.00	48.50
77334		33	6098.00	184.79	2516.00	76.24
77420		316	35137.00	111.19	22131.00	70.03
77425 77430		148 790	21060.00 113026.00	142.30 143.07	13724.00 91570.00	92.73 115.91
77431		16	1657.00	103.56	1253.00	78.31
77470		2	300.00	150.00	176.00	88.00
77784		3	2100.00	700.00	1269.00	423.00
		1763	240903		164043	

### FY92 MEPRS ANCILLARY WEIGHTED PROCEDURES BY WORKCENTER FOR SUMMARY ACCOUNT DCA (DIAGNOSTIC RADIOLOGY)

0747F 00	51455	•	ANCILLARY
STATE OR	DWIZ	PAGEL TYV NAME	WEIGHTED
COUNTRY	10	FACILITY NAME	PROCEDURES
ALABAMA	0001		86506
	0003	LYSTER ACH	157732
	0002	NOBLE ACH	155792
	0004	502nd MEDICAL GROUP	107112
ALASKA	0005	RASSETT ACH	117622
	0007	BH NAVSTA ADAK	22202
ALASKA	0007	3rd MEDICAL CENTED	20393
HENOKK	0000	34324 MEDICAL COURD CLIMIC	203/13
ARIZONA	0203	BLICA VOR	102572
MILLONA	0000	92nd MEDICAL COLLADDON	1025/3
	0011	52+6 MEDICAL SQUADRON	41000
	0003	355+ P WEDICKE GROOP	333310 120214
ARKANSAS	0010	07+h STDATECIC HOSDITAL	120214
MINMONO	0012	314th MEDICAL COULD	120550
CALIFORNIA	0013	HAYS ACH	12000
	0131	WEED ACH	61529
	0131	NH CAMP PENDLETON	251029
	0021	WEED ACH NH CAMP PENDLETON NH LEMOORE NH LONG BEACH NH OAKLAND NH SAN DIEGO NH TWENTYNINE PALMS NMCL PORT HUENEME 30th MEDICAL GROUP 22nd MEDICAL GROUP 323rd FTW HOSPITAL 9th MEDICAL GROUP 831st MEDICAL GROUP 650th MEDICAL GROUP DAVID GRANT USAF MED CTR 655th MEDICAL GROUP	60602
	0025	NH LONG REACH	94425
	0027	NH DAKLAND	534928
	0029	NH SAN DIEGO	1357937
	0030	NH TWENTYNINE PAIMS	62930
	0026	NMCL PORT HIENEME	25220
	0018	30th MEDICAL GROUP	81932
	0021	22nd MEDICAL GROUP	192849
	0017	93rd MEDICAL GROUP	69768
	0016	323rd FTW HOSPITAL	109979
	0015	9th MEDICAL GROUP	34351
	0020	831st MEDICAL GROUP	30758
	0019	650th MEDICAL GROUP	48073
	0014	DAVID GRANT USAF MED CTR	673177
	0248	655th MEDICAL SQUADRON	4880
	0249	63rd MEDICAL GROUP	28005
	0250	652nd MEDICAL GROUP	70696
COLORADO		EVANS ACH	665016
		FITZSIMONS AMC	1204623
		USAF ACADEMY HOSPITAL	293294
		3415th MEDICAL SQUADRON	9147
		21st MEDICAL GROUP	38413

### FY92 MEPRS ANCILLARY WEIGHTED PROCEDURES BY WORKCENTER FOR SUMMARY ACCOUNT DCA (DIAGNOSTIC RADIOLOGY)

STATE OR COUNTRY	DMIS	FACILITY NAME	ANCILLARY WEIGHTED PROCEDURES
CONNECTICUT	0035	NH GROTON	100645
DELAWARE	0036	436th MEDICAL GROUP	100774
WASHINGTON DC	0037	WALTER REED AMC	1408727
FLORIDA		NH JACKSONVILLE	531833
	0040	NH ORLANDO	188254
	0038	NH PENSACOLA	266873
	0041	NMCL KEY WEST  31st MEDICAL GROUP 56th MEDICAL GROUP 325th MEDICAL GROUP 45th MEDICAL GROUP 646th MEDICAL GROUP EISENHOWER AMC MARTIN ACH	9176
		31st MEDICAL GROUP	88433
		56th MEDICAL GROUP	223099
		325th MEDICAL GROUP	142162
		45th MEDICAL GROUP	127207
GEORGIA		646th MEDICAL GROUP	270287
GEURGIA		EISENHOWER AMC	827154
		MARTIN ACH WINN ACH	
			551429
			41836
HAWAII		TRIPLER AMC	124512
HUMUII			1324693
			99257
IDAHO			21643
ILLINOIS			55589 194183
122111010			56167
		USAF MED CTR SCOTT	333067
INDIANA		HAWLEY ACH	56171
		305th MEDICAL SQUADRON	8897
		IRWIN ACH	260081
		MUNSON ACH	92193
		BLANCHFIELD ACH	370065
	0061	IRELAND ACH	300803
LOUISIANA	0064	BAYNE-JONES ACH	181396
	0297	NMCL NEW ORLEANS	16679
	0062	2nd MEDICAL GROUP	117241
		23rd MEDICAL GROUP	17829
		42nd MEDICAL GROUP	31358
		KIMBROUGH ACH	169037
		NH PATUXENT RIVER	31049
		NNMC BETHESDA	1093225
		NMCL ANNAPOLIS	38195
	0000	MALCOLM GROW USAF MEDICAL CENTER	565479

### FY92 MEPRS ANCILLARY WEIGHTED PROCEDURES BY WORKCENTER FOR SUMMARY ACCOUNT DCA (DIAGNOSTIC RADIOLOGY) ANCILLARY

STATE OR D	MIS ID	EAGTI TTV MANE	WE	NCILLARY EIGHTED OCEDURES
MASSACHUSETTS 0	070	CUTLER ACH 647th MEDICAL SQUADRON 379th MEDICAL GROUP 410th MEDICAL GROUP 14th MEDICAL SQUADRON KEESLER MEDICAL CENTER L. WOOD ACH 351st MEDICAL GROUP 43rd MEDICAL GROUP EHRLING BERQUIST HOSPITAL 554th MEDICAL GROUP NMCL PORTSMOUTH PATTERSON ACH WALSON ACH 438th MEDICAL GROUP 27th MEDICAL GROUP 49th MEDICAL GROUP 542nd MEDICAL GROUP 542nd MEDICAL GROUP KELLER ACH GUTHRIE AHC 380th MEDICAL GROUP 416th MEDICAL GROUP WOMACK AMC NH CAMP LEJEUNE NH CHERRY POINT 4th MEDICAL GROUP 3rd MEDICAL GROUP 3rd MEDICAL GROUP 3rd MEDICAL GROUP 3rd MEDICAL GROUP 5th MEDICAL GROUP USAF MED CTR WRIGHT-PATTERSON REYNOLOS ACH 97th MEDICAL GROUP		88562
0	310	647th MEDICAL SQUADRON		11489
MICHIGAN O	071	379th MEDICAL GROUP		35106
0	072	410th MEDICAL GROUP		24655
MISSISSIPPI 0	074	14th MEDICAL SQUADRON		49255
0	073	KEESLER MEDICAL CENTER		1090603
WI2200KI 0	0/5	L. WOOD ACH		384660
MONTANA	0/6	351St MEDICAL GROUP		42876
MERDASKA O	U//	43rd MEDICAL GROUP		53524
NEVADA O	170	ERVING DEKAOISI MOSELIAE		101039
NEW HAMPSHIRE O	321	NMCI PODTCAL GROUP		24027
NEW JERSFY O	181	PATTERSON ACH		100627
0:	182	WALSON ACH		203670
0	326	438th MEDICAL GROUP		Q521
NEW MEXICO OF	085	27th MEDICAL GROUP		83329
0	084	49th MEDICAL GROUP		96733
0(	083	542nd MEDICAL GROUP		200035
NEW YORK 0	086	KELLER ACH		77205
0:	330	GUTHRIE AHC		73296
0(	087	380th MEDICAL GROUP		26538
0(	88	416th MEDICAL GROUP		53251
NURTH CAROLINA OF	)89	WOMACK AMC		599090
00	91	NH CAMP LEJEUNE		236199
0(	192	NH CHERRY POINT		80224
01	190	4th MEDICAL GROUP		85059
NADTH DAVOTA OF	102	2304 MEDICAL GROUP		9611
OU MIDANU BIADN	101	SIGN MEDICAL CROUP		34239
0110	105	IISAE MEN CTD LIDICHT-DATTEDSON		1242/0
OKLAHOMA OC	198	REYNOLDS ACH		431818
00	97	97th MEDICAL GROUP		32135
00	96	97th MEDICAL GROUP 654th MEDICAL GROUP		132286
		71st MEDICAL SQUADRON		11192
		NMCL PHILADELPHIA		55107
RHODE ISLAND 01	00	NH NEWPORT		91546
SOUTH CAROLINA 01	05	MONCRIEF ACH		288998
		NH BEAUFORT		87548
		NH CHARLESTON		297001
		354th MEDICAL GROUP		42847
		363rd MEDICAL GROUP		124335
03	56	437th MEDICAL SQUADRON	1	12194

### FY92 MEPRS ANCILLARY WEIGHTED PROCEDURES BY WORKCENTER FOR SUMMARY ACCOUNT DCA (DIAGNOSTIC RADIOLOGY)

STATE OR COUNTRY	DMIS	FACILITY NAME	ANCILLARY WEIGHTED PROCEDURES
SOUTH DAKOTA	0106	28th MEDICAL GROUP NH MILLINGTON BROOKE AMC DARNALL ACH WILLIAM BEAUMONT AMC NH CORPUS CHRISTI 47th MEDICAL SQUADRON 64th MEDICAL SQUADRON 67th MEDICAL GROUP 96th MEDICAL GROUP	68752
TENNESSEE	0107	NH MILLINGTON	117933
TEXAS	0109	BROOKE AMC	1319936
	0110	DARNALL ACH	854289
	0108	WILLIAM BEAUMONT AMC	754890
	0118	NH CORPUS CHRISTI	96098
	0114	47th MEDICAL SQUADRON	25747
	0111	64th MEDICAL SQUADRON	49404
	0115	67th MEDICAL GROUP	98301
	0112	96th MEDICAL GROUP ROBERT THOMPSON STRATEGIC HOSPITAL	76904
	0116	ROBERT THOMPSON STRATEGIC HOSPITAL 396th MEDICAL GROUP WILFORD HALL USAF MED CTR 12th MEDICAL SQUADRON 391st MEDICAL SQUADRON 648th MEDICAL SQUADRON 651st MEDICAL SQUADRON 649th MEDICAL GROUP DEWITT ACH KENNER ACH MCDONALD ACH NH PORTSMOUTH NMCL QUANTICO 1st MEDICAL GROUP MADIGAN AMC NH BREMERTON NH OAK HARBOR NMCL SEATTLE 92nd MEDICAL GROUP	214129
	0113	396th MEDICAL GROUP	172181
	011/	WILFURD HALL USAF MED CTR	1460539
	0366	12th MEDICAL SQUADRON	69003
	0364	391st MEDICAL SQUADRON	18321
	0363	648th MEDICAL SQUADRON	8242
11T A 11	0365	651st MEDICAL SQUADRON	31225
UTAH	0119	649th MEDICAL GROUP	75138
VIRGINIA	0123	DEWITT ACH	198666
	0122	KENNER ACH	91256
	0121	MCDUNALD ACH	181850
	0124	NMCL QUANTICO	1091/93
	0300	1.4 MEDICAL CDOUD	3/414
WASHINGTON	0120	MADICAN AMC	158435
WASHINGTON	0125	NU DEMENTAN	099319
	0120	NO DECICE ON	383007
	0127	NMC! SEATTLE	122113
	0120	92nd MEDICAL GROUP	9128
	0120	62nd MEDICAL GROUP	101137 11193
WYOMING		90th MEDICAL GROUP	11193
42943	0129	FOUR FIEDICAL GROUP	

### FOR SUMMARY ACCOUNT DIA (NUCLEAR MEDICINE)

STATE OR COUNTRY	DMIS ID	FACILITY NAME  502nd MEDICAL GROUP  3rd MEDICAL CENTER  HAYS ACH  NH CAMP PENDLETON  NH LONG BEACH  NH OAKLAND  NH SAN DIEGO	WORKLOAD
ALABAMA	0004	502nd MEDICAL GROUP	126244
ALASKA	0006	3rd MEDICAL CENTER	93637
CALIFORNIA	0023	HAYS ACH	83181
	0024	NH CAMP PENDLETON	19782
	0025	NH LONG BEACH	13902
	0027	NH OAKLAND	763318
	0029	NH SAN DIEGO	701185
	0021	22nd MEDICAL GROUP	72693
COLODADO	0014	DAVID GRANT USAF MED CTR	642847
COLORADO	0032	EVANS AUG	27476
	0031	HILASIMUNS AMU	2131686
CONNECTICUT	0033	USAF ACADEMI HUSPITAL	139437
FLORIDA	0030	NH TVCACUNATILE	13126 141928
LEGKION	0039	NU ODIANDO	62198
	0040	NH OAKLAND NH SAN DIEGO 22nd MEDICAL GROUP DAVID GRANT USAF MED CTR EVANS ACH FITZSIMONS AMC USAF ACADEMY HOSPITAL NH GROTON NH JACKSONVILLE NH ORLANDO NH PENSACOLA 646th MEDICAL GROUP EISENHOWER AMC MARTIN ACH TRIPLER AMC NH GREAT LAKES	25007
	0042	646th MEDICAL GROUP	77792
GEORGIA	0047	EISENHOWER AMC	401558
	0048	MARTIN ACH	86152
HAWAII	0052	MARTIN ACH TRIPLER AMC NH GREAT LAKES USAF MED CTR SCOTT IRELAND ACH	591434
ILLINOIS	0056	NH GREAT LAKES	44035
	0055	USAF MED CTR SCOTT	175658
KENTUCKY	0061	IRELAND ACH	163018
MARYLAND	0067	NNMC BETHESDA	600189
		MALCOLM GROW USAF MEDICAL CENTER	
MISSISSIPPI		KEESLER MEDICAL CENTER	310362
MISSOURI		L. WOOD ACH	96625
NORTH CAROLINA		WOMACK AMC	980815
01170	0091	NH CAMP LEJEUNE USAF MED CTR WRIGHT-PATTERSON REYNOLDS ACH	9453
OHIO	0095	USAF MED CIR WRIGHT-PATTERSON	365570
OKLAHOMA		ALTHOUGH HOW	
RHODE ISLAND		NH NEWPORT	6005
SOUTH CAROLINA		MONCRIEF ACH	48119 14605
TENNESSEE		NH CHARLESTON NH MILLINGTON	3470
TEXAS		BROOKE AMC	1170062
ILANS		DARNALL ACH	585184
		WILLIAM BEAUMONT AMC	640325
		NH CORPUS CHRISTI	4286
		ROBERT THOMPSON STRATEGIC HOSPITAL	45992
		396th MEDICAL GROUP	40309
		WILFORD HALL USAF MED CTR	822808
VIRGINIA		NH PORTSMOUTH	1055461
WASHINGTON		MADIGAN AMC	1079629
		NH BREMERTON	39300

\$100,049

\$240,629

1,538

7,692

SUMMARY OF CHAMPUS RADIOLOGICAL PROCEDURES FY 93 DATA 01 OCT 92 TO 30 SEP 93

THIRD PARTY COLLECTIONS (TPC)

CPT CODES	SERVICE PROVIDED	COST OF SERVICE	EST ALLOW COST	# POTENT TPC EXAMS	# HISTOR TPC (20%)	POTENT THIRD PARTY COLLECT	POTENT THIRD PARTY ALLOW
71100-71101	X-RAY RIBS (ALL), PER SIDE (UNILAT) X-RAY HIPS RII AT	\$113	\$17	95	19	\$2,147	\$323
74220-74340	UPPER GASTROINTESTIONAL STUDY WITH CONTRAST	\$143	\$40	689	138	\$19,705	\$5,512
76090-76092	MAMOGRAM, BII ATERAL OR WITH LOCALIZATION	\$129	\$31	3270	654	\$84,366	\$20,274
76506-76999	ULTRASOUND, PER STUDY	\$116	\$60	1591	318	\$36,911	\$19,092
76700	ULTRASOUND, COMPLETE ABDOMEN OR WITH BIOPSY	\$198	\$61	64	13	\$2,534	\$781
70450,70480,70486	CAT HEAD/BRAIN WITHOUT CONTRAST	\$193	\$108	320	64	\$12,352	\$6,912
70460.70481.70487	CAT HEAD/BRAIN WITH CONTRAST	\$218	\$105	107	21	\$4,665	\$2,247
70470,70482,70488	CAT HEAD/BRAIN WITH AND WITHOUT CONTRAST OR POST	\$307	\$127	120	24	\$7,368	\$3,048
	FOSSA AND IAM/IACS						
71260,71250,72125	CAT SCAN CHEST	\$339	\$133	213	43	\$14,441	\$5,666
74160,74170,72194	CAT SCAN ABDOMEN, PER STUDY	\$169	\$141	503	101	\$17,001	\$14,185
73700	CAT SCAN EXTREMITY WITHOUT CONTRAST	\$197	\$89	4	_	\$158	\$71
73701,73201	CAT SCAN EXTREMITY WITH CONTRAST	\$226	\$157	4	-	\$181	\$126
74170.70470.7082	CAT SCAN WITH AND WITHOUT CONTRAST	\$393	\$150	220	44	\$17,292	\$6,600
71550,70551,75552	MRI WITHOUT CONTRAST	\$279	\$200	85	17	\$4,743	\$3,400
70552	MRI WITH CONTRAST BRAIN	\$481	\$481	-	0	96\$	96\$
72146,72141,72148	MRI SPINE (ALL), CHEST AND ABDOMEN WITHOUT CONTRAST	\$229	\$229	121	24	\$5,542	\$5,542
	MRI SPINE (ALL) WITH CONTRAST	\$507	\$300	0	0	\$0	\$0
73721,73220,73221	MRI EXTREMITÝ WITHOUT CONTRAST	\$360	\$298	92	18	\$6,624	\$5,483
	MRI EXTREMITY WITH AND WITHOUT CONTRAST	\$279	\$300	0	0	\$0	80

## SUMMARY OF CHAMPUS RADIOLOGICAL PROCEDURES FY 93 DATA 01 OCT 92 TO 30 SEP 93

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֡֝֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜	KU PAK	
֡֝֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜	THE PARTY COLLECTIONS (FC)	

CPT CODES	SERVICE PROVIDED	COST OF SERVICE	EST ALLOW COST	# POTENT TPC EXAMS	50% PATIENT DEMAND RADIOLOGY	# HISTOR TPC (20%)	POTENT THIRD PARTY COLLEST	POTENT THIRD PARTY ALLOW
70771		100	17.6	10		,	1000	0070
10117-00117	X-RAT RIBS (ALL), PER SIDE (UNICAL)	۵LL4	-	CA CA	0.74	5	470,14	\$16Z
72170-72190	X-RAY HIPS, BILAT	\$114	\$14	151	75.5	15	\$1,721	\$211
74220-74340	UPPER GASTROINTESTIONAL STUDY WITH CONTRAST	\$143	\$40	689	344.5	69	\$9,853	\$2,756
74740	HYSTEROSALPINGOGRAM	\$126	\$32	42	21	4	\$529	\$134
76090-76092	MAMOGRAM, BILATERAL OR WITH LOCALIZATION	\$129	\$31	3270	1635	327	\$42,183	\$10,137
76506-76999	ULTRASOUND, PER STUDY	\$116	\$60	1591	795.5	159	\$18,456	\$9,546
76700	ULTRASOUND, COMPLETE ABDOMEN OR WITH BIOPSY	\$198	\$61	64	32	9	\$1,267	\$390
70450,70480,70486	CAT HEAD/BRAIN WITHOUT CONTRAST	\$193	\$108	320	160	32	\$6,176	\$3,456
70460,70481,70487	CAT HEAD/BRAIN WITH CONTRAST	\$218	\$105	107	53.5	1	\$2,333	\$1,124
70470,70482,70488	CAT HEAD/BRAIN WITH AND WITHOUT CONTRAST OR POST	\$307	\$127	120	09	12	\$3,684	\$1,524
	FOSSA AND IAMIJACS							
71260,71250,72125	CAT SCAN CHEST	\$339	\$133	213	106.5	21	\$7,221	\$2,833
74160,74170,72194	CAT SCAN ABDOMEN, PER STUDY	\$169	\$141	503	251.5	20	\$8,501	\$7,092
73700	CAT SCAN EXTREMITY WITHOUT CONTRAST	\$197	\$83	4	2	0	\$79	\$36
73701,73201	CAT SCAN EXTREMITY WITH CONTRAST	\$226	\$157	4	2	0	\$30	\$63
74170,70470,7082	CAT SCAN WITH AND WITHOUT CONTRAST	\$393	\$150	220	110	22	\$8,646	\$3,300
71550,70551,75552	MRI WITHOUT CONTRAST	\$279	\$200	82	42.5	O)	\$2,372	\$1,700
70552	MRI WITH CONTRAST BRAIN	\$481	\$481	-	0.5	0	\$48	\$48
72146,72141,72148	MRI SPINE (ALL), CHEST AND ABDOMEN WITHOUT CONTRAST	\$229	\$229	121	60.5	12	\$2,771	\$2,771
	MRI SPINE (ALL) WITH CONTRAST	\$507	\$300	0	0	0	\$0	80
73721,73220,73221	MRI EXTREMITY WITHOUT CONTRAST	\$360	\$298	92	46	O	\$3,312	\$2,742
	MRI EXTREMITY WITH AND WITHOUT CONTRAST	\$279	\$300	0	0	0	\$0	\$0
				11 11 11 11 11		11 11 11 11		
				7,692	3,846	769	\$120,314	\$50,024

**Family Practice Clinic** NHCHASN 7000/10 (Rev Mar 93) Third Party Collection [] Acree [] Epling [] Kutzera [] Simpson Patient Encounter Form Date [] Axman [] Fischer [] MacDonald [] Sofianek [ ] Bickel [] Floyd [] Maher [] Walker Addressograph (Name, FMP-SSN, DOB) [] Blackburn [] Frazier [] Mason [] Waskowski Name: [] Blonski [] Greenawald[] Mentel [] Butler [] Gresens [] Moya []FMP/SSN [] Chabazi [] Herrold [] Norcross [] Cleary [] Hudson [] Porvaznik DOB: [] Cohen [] Hurley [] Quinlan Circle one: [] Counard [] Jones B. **NEW Visit** [] Renken INSURANCE: YES NO [] Dolney [] Jones W. [] Rutledge F/UP Visit INSURANCE CO, NAME, [] Donaldson[] Kidder [] Schhreiber [] Elwood [] Knauer [] Schrubbe Is today's visit result of accident? Yes No MVA Office Visit Minutes New Pt Estab Pt Consult Brief 10 [] 99201 [] 99211 [] 99241 15 Circle only one please: Limited 20 []99202 [] 99212 [] 99242 30 Pt Info: Active RET DEP RES Intermed 30 []99203 []99213 [] 99243 40 Branch: N A MC CG AF Extended 45 []99204 [] 99214 [199244 60 Comprehen 60 []99205 []99215 [] 99245 80 [] 314.40 ADD [ ] 558.9 Diarrhea [] 381.20 Otitis Media, Chronic [] 795.0 Abnormal Pap [] 780.4 Dizziness [ ] 381.00 Otitis Media, Serous [] 682.9 Abscess/Cyst/Ulcer [] 305.90 Drug Abuse [] 789.0 Pain, Abdomen [] 706.1 Acne [] 304.90 Drug Dependence [] 729.5 Pain, Arm/Shoulder [] 309.0 Adjustment D/O [] 693.0 Drug Reaction [] 724.5 Pain, Back [] 303.9 Alcohol Dependence [] 788.1 Dysuria [] 786.5 Pain, Chest [] 995.3 Allergic Reaction [] 788.3 Enuresis [] 729.5 Pain, Foot [] 477.9 Allergic Rhinitits [] 381.81 Eustachian Tube Dys [] 723.1 Pain, Neck [] 626.0 Amenorrhea [] 783.4 Failure to Thrive [] 625.9 Pain, Pelvic-female [] 285.9 Anemia [] 780.7 Fatigue/Malaise [] 785.1 Palpitations [] 413.9 Angina [] 780.6 Fever [] 533.90 Peptic Ulcer Disease [] 308.0 Anxiety Reaction [] 610.1 Fibrocystic Breast [] 462 Pharyngitis [] 715.0 Arthritis, Degen [ ] 535.0 Gastritis [] 034.0 Pharyngitis/Strep [] 714.0 Arthritis, Rheum [] 558.9 Gastroenteritis [] V70.0 Physical Exam [] 716.9 Arthritis, Unspec [] 300.2 General Anixety Dis [] 614.9 PID/Cervicitis [] 429.2 ASCAD [] 274.9 Gout [] 486 Pneumonia/unpsec [] 493.9 Asthma [] 578.9 GI Bleeding [] 627.1 Postmenopausal Bleed [] 600 BPH [] 346.9 Headache, Migraine [] 601.0 Prostatitis [] 239.3 Breast Lump -[] 784.0 Headache, Unspec [] 590.80 Pyelonephritis [] 490 Bronchitis [] 445.6 Hemorrhoids [] 782.1 Rash [] 519.1 Bronchospasm [] 272.0 Hypercholesterolemia [] 569.3 Rectal Bleeding [] 949.0 Bum, Unspec [] 643.1 Hyperemesis Gravidarium [] 586 Renal Failure [ ] 727.3 Bursitis [] 272.4 Hyperlipidemia [] 780.3 Seizure D/O [] 682.9 Cellulitis [] 401.9 Hypertension [] 461.9 Sinusiitis [] 847.0 Cervical Strain [] 242.9 Hyperthroidism [] 780.50 Sleep D/O [] 428.0 CHF [] 244.9 Hypothyroidism [] 780.2 Syncope [] 574.2 Cholelithiasis [] 684 Impetigo [] 305.1 Tobacco Use D/O [] 372.30 Conjunctivitis [] 607.84 Impotence [] 854.00 Trauma, Head [] 564.0 Constipation [] 628.9 Infertility, female [] 708.9 Urticaria [] 918.1 Corneal Abrasion [] 564.1 Irritable Bowel Syndrome [] 465.9 URI [] 786.2 Cough [] 379.8 Laceration [] 599.0 UTI [] 496 COPD [] 626.4 Menstrual, Irregular [] 626.9 Vaginal Bleeding [] 429.2 CVA [] 626.2 Menorrhea [] 616.0 Vaginitis, Unspec [] 595.9 Cystitis [] 787.0 Nausea/Vomiting [] 078.1 Venereal Warts [] 276.5 Dehydration [] 650 OB Visit [] 780.4 Vertigo [] 298.9 Dementia/Confusion [] 278.0 Obesity [] 079.9 Viral Syndrome [] 691.9 Dermatitis, Contact [] 380.10 Otitis, Externa [] 078.1 Warts [] 250.0 Diabetes Mellitus [] 382.9 Otitis Media Acute [] V20.2 Well Baby Exam